

```

public float calc_Tax()
{
    float ann_sal=basic+calc_HRA()+calc_Super_Annuation();
    if(ann_sal>150000)
        return((float)0.30*ann_sal);
    else
        return((float)0.20*ann_sal);
}

public float calc_Bonus()
{
    return(0);
}

public float calc_Super_Annuation()
{
    return((float)0.15*basic);
}

public float calc_Gross()
{
    return(basic+calc_HRA()+calc_Bonus()-calc_Tax());
}

void print_Salary()
{
    System.out.println("\n "+CalcPay.company_name);
    System.out.println("Employee number : "+e_id);
    System.out.println("Employee name : "+ename);
    System.out.println("Basic salary : "+basic);
    System.out.println("House rent allowence : "+calc_HRA());
    System.out.println("Superannuation : "+calc_Super_Annuation());
    System.out.println("Taxation : "+calc_Tax());
    System.out.println("Gross salary : "+calc_Gross());
    System.out.println("_____ \n");
}
}

public class PaySlip
{
    public static void main(String args[])
    {
        Clerk c1=new Clerk(3648, "Vinay Sharma", 800);
        c1.print_Salary();
    }
}

```

```

    Manager m1=new Manager(2619, "S.K.Lal", 7000);
    m1.print_Salary();

```

```

    }
}

```

### aim:-Packages

#### 41.Stack.java

```
package mypackage;
```

```
public class Stack
```

```
{
```

```
    private int stck[];
    private int stack_Ptr;
```

```
    public Stack(int size)
```

```
{
```

```
        stck=new int[size];
        stack_Ptr=-1;
```

```
}
```

```
    public void push(int item)
```

```
{
```

```
        if (stack_Ptr==stck.length-1)
            System.out.println("Stack is full");
        else
            stck[++stack_Ptr]=item;
```

```
}
```

```
    public int pop()
```

```
{
```

```
        if (stack_Ptr<0)
        {
            System.out.println("Stack is underflow");
            return(0);
        }
        else
            return(stck[stack_Ptr--]);
```

```
}
```

```
}
```

#### Queue.java

```
package mypackage;
```

```
public class Queue
```

```

{
    private int que[];
    private int queue_Ptr1,queue_Ptr2;

    public Queue(int size)
    {
        que=new int[size];
        queue_Ptr1=size - 1;
        queue_Ptr2=size - 1;
    }

    public void attach(int item)
    {
        if (queue_Ptr1<que.length && queue_Ptr1>-1)
            que[queue_Ptr1--]=item;
        else
            System.out.println("Queue is full");
    }

    public int detach()
    {
        if (queue_Ptr2<que.length && queue_Ptr2>queue_Ptr1)
        {
            return(que[queue_Ptr2--]);
        }
        else
        {
            System.out.println("Queue is empty");
            return(0);
        }
    }
}

```

**CallStack.java**

```

import mypackage.*;

public class CallStack
{
    public static void main(String args[])
    {
        Stack s1=new Stack(5);
        for (int i=0; i<5; i++)
        {
            s1.push(i);
        }
    }
}

```

```

        System.out.println("The stack contains");

        for (int i=0; i<5; i++)
        {
            System.out.println(s1.pop());
        }
    }
}

```

**CallQueue.java**

```

import mypackage.*;

public class CallQueue
{
    public static void main(String args[])
    {
        Queue q1=new Queue(5);
        for (int i=0; i<5; i++)
        {
            q1.attach(i);
        }

        System.out.println("The Queue contains");

        for (int i=0; i<5; i++)
        {
            System.out.println(q1.detach());
        }
    }
}

```

**aim:-HTML Basics****42.TEXTSIZE.HTML**

```

<html>
<head>
<title>Document Title</title>
</head>

<body>

<H1>Sample HTML Document</H1>
<HR>
<H3>The document's body may contain:</H3>
<H4>Text, Immages, Sound and HTML Commands</H4>

```

```
</body>
</html>
```

### **43.TILEDBACK.HTML**

```
<html>
<head>
<title>Your title goes here</title>
</head>

<body BACKGROUND="Image1.jpg">
```

```
<H1>Tiled background</H1>
<P>The background of this page was created with
a small image, Which is tiled vertically and horizontally
bu the browser
<BR>
This is a testing HTML Document
```

```
</body>
</html>
```

### **44.GRAPHICS.HTML**

```
<html>
<head>
<title>Graphic on web page</title>
</head>
```

```
<body>

<CENTER>
<H1>Placing immagine on a web page</H1>
<IMG Src="Image1.gif"><BR>
Immagine file, centered on the page
</CENTER>
```

```
</body>
</html>
```

### **45.TABLE.HTML**

```
<html>
<head>
<title>Graphic on web page</title>
</head>
<body>
```

```
<TABLE BORDER=1 CELLSPACING=1 CELLPADDING=1>
```

```

<TR>
  <TD>Row1,Column1</TD>
  <TD>Row1,Column2</TD>
  <TD>Row1,Column3</TD>
</TR>
<TR>
  <TD>Row2,Column1</TD>
  <TD>Row2,Column2</TD>
  <TD>Row2,Column3</TD>
</TR>
<TR>
  <TD>Row3,Column1</TD>
  <TD>Row3,Column2</TD>
  <TD>Row3,Column3</TD>
</TR>
</TABLE>

</body>
</html>

```

#### **46.COLROWSPAN.HTML**

```

<html>
<head>
<title>Coloumn & Row Span</title>
</head>
<body>

<TABLE BORDER>
<caption><B>ROWSPAN & COLSPAN Demo</B></CAPTION>
<TR>
  <TD COLSPAN=2 ROWSPAN=2>Source:<BR>1991 Census</TD>
  <TH COLSPAN=2>Average</TH>
</TR>
<TR>
  <TH>Height</TH>
  <TH>Weight</TH>
</TR>
<TR>
  <TH ROWSPAN=2>Gender</TH>
  <TH>Males</TH>
  <TD>5.83</TD>
  <TD>195.5</TD>
</TR>
<TR>
  <TH>Females</TH>
  <TD>5.22</TD>

```

```
<TD>167.8</TD>
</TR>
</TABLE>
```

```
</body>
</html>
```

### **47.FRAMES.HTML**

```
<HTML>
<HEAD>
<TITLE>Floating Frames</TITLE>
</HEAD>

<BODY BGCOLOR=black>
<FONT NAME="Verdana" COLOR=lightyellow>
<CENTER>
<H1>Here they are...</H1>
<H4>... side by side</H4>
<P>
<IFRAME
  SRC="http://home.microsoft.com/"
  NAME="MS"
  WIDTH=325
  HEIGHT=325
  SCROLLING=YES
  MARGINWIDTH=0
  MARGINHEIGHT=0
  HSPACE=8>

</IFRAME>

<IFRAME
  SRC="http://home.netscape.com/"
  NAME="NS"
  WIDTH=325
  HEIGHT=325
  SCROLLING=YES
  MARGINWIDTH=0
  MARGINHEIGHT=0
  HSPACE=8>
</IFRAME>
</FONT>
</CENTER>
</BODY>
</HTML>
```

#### **48.SOUND.HTML**

```
<html>
<head>
<title>Sound on web page</title>
</head>
<EMBED SRC="Sound1.wav" width=200 height=55 autostart=true>
<body>

<CENTER>
<H1>Placing Sound on a web page</H1>

</CENTER>

</body>
</html>
```

#### **aim:-Applet basics**

#### **49.hello\_applet.java**

```
import java.awt.Graphics;
import java.applet.*;

public class hello_applet extends Applet
{
    public void paint(Graphics g)
    {
        g.drawString("Hello from java!",60,30);
    }
}
```

#### **hello\_applet.HTML**

```
<html>

<! - Web page written for the SUN Aplet viewer>

<head>
<title>hello_applet</title>
</head>

<body>

<hr>
<applet
    code=hello_applet.class
    width=200
```

```

        height=200
    >
</applet>

<hr>

</body>
</html>

```

### **50.TryApletParam.java**

```

import java.awt.*;
import java.applet.*;

public class TryApletParam extends Applet
{
    Font f;
    int s;
    public void init()
    {
        String textsize;
        textsize=getParameter("size");
        if (textsize==null)
            s=44;
        else
            s=Integer.parseInt(textsize);
    }

    public void paint(Graphics g)
    {
        f=new Font("Verdana",Font.BOLD,s);
        g.setFont(f);
        g.setColor(Color.blue);
        g.drawString("My first applet!",60,20);
    }
}

```

### **TryApletParam.HTML**

```

<html>

<! - Web page written for the SUN Aplet viewer>

<head>
<title>TryApletParam</title>
</head>

<body>

```

```
<hr>
<applet
  align=left
  code=TryAppletParam.class
  width=400
  height=200
>
<param name=size value="30">
</applet>

<hr>

</body>
</html>
```

### **51.Graphic Applet.java**

```
import java.awt.*;
import java.applet.*;

public class Graphic_Applet extends Applet
{
    public void paint(Graphics g)
    {
        g.drawLine(10,20,100,200);
        g.drawRect(50,60,80,120);
        g.setColor(Color.red);
        g.fillRect(100,140,200,250);
        g.drawRoundRect(100,160,240,330,10,10);
        g.setColor(Color.blue);
        g.drawOval(100,100,200,200);
        g.setColor(Color.yellow);
        g.drawArc(170,230,60,20,180,180);
    }
}
```

### **Graphic Applet.HTML**

```
<html>

<! - Web page written for the SUN Aplet viewer>

<head>
<title>Graphic_Applet</title>
</head>
```

```
<body>

<hr>
<applet
    code=Graphic_Applet.class
    width=600
    height=900
>
</applet>

<hr>

</body>
</html>
```

### **52.Polygon\_Applet.java**

```
import java.awt.*;
import java.applet.*;

public class Polygon_Applet extends Applet
{
    public void paint(Graphics g)
    {
        int x[]={20,20,70,120,120};
        int y[]={20,150,200,150,20};
        int l=x.length;
        g.drawPolygon(x,y,l);
    }
}
```

### **Polygon\_Applet.HTML**

```
<html>

<!-- Web page written for the SUN Aplet viewer>

<head>
<title>Polygon_Applet</title>
</head>

<body>

<hr>
<applet
    code=Polygon_Applet.class
    width=600
```

```
        height=900
>
</applet>

<hr>

</body>
</html>
```

### **53.Image\_Applet.java**

```
import java.awt.*;
import java.applet.*;

public class Image_Applet extends Applet
{
    Image img;

    public void init()
    {
        img=getImage(getCodeBase(),"123.gif");
    }

    public void paint(Graphics g)
    {
        int w=img.getWidth(this);
        int h=img.getHeight(this);
        g.drawImage(img,20,10,Color.red,this);
        g.drawImage(img,200,10,w/2,h/2,Color.blue,this);
    }
}
```

### **Image\_Applet.HTML**

```
<html>

<!-- Web page written for the SUN Aplet viewer>

<head>
<title>Immage_Applet</title>
</head>

<body>

<hr>
<applet
    code=Immage_Applet.class
    width=600
```

```
        height=900
>
</applet>

<hr>

</body>
</html>
```

**aim:-Using Abstract Window Toolkit**

**54.text.java**

```
import java.awt.*;
import java.applet.*;

public class text extends Applet
{
    TextField text1;

    public void init()
    {
        text1=new TextField(20);

        add(text1);

        text1.setText("Wellcome to java");
    }
}
```

**text.html**

```
<html>

<! - Web page written for the SUN Aplet viewer>

<head>
<title>text</title>
</head>

<body>

<hr>
<applet
    code=text.class
    width=200
```

```

        height=200
    >
</applet>

<hr>

</body>
</html>

```

**55.clicker.java**

```

import java.awt.*;
import java.applet.*;
import java.awt.event.*;

public class clicker extends Applet implements ActionListener
{
    TextField text1;
    Button button1;

    public void init()
    {
        text1=new TextField(20);
        add(text1);
        button1=new Button("Click Here!");
        add(button1);
        button1.addActionListener(this);
    }

    public void actionPerformed(ActionEvent event)
    {
        String msg=new String("Welcome to java");
        if (event.getSource()==button1)
        {
            text1.setText(msg);
        }
    }
}

```

**clicker.html**

```

<html>

<! - Web page written for the SUN Aplet viewer>

<head>
<title>clicker</title>
</head>

```

```
<body>

<hr>
<applet
    code=clicker.class
    width=200
    height=200
>
</applet>

<hr>

</body>
</html>
```

### **56.clickers.java**

```
import java.awt.*;
import java.applet.*;
import java.awt.event.*;

public class clickers extends Applet implements ActionListener
{
    TextField text1;
    Button button1,button2;

    public void init()
    {
        text1=new TextField(20);
        add(text1);
        button1=new Button("Click Here!");
        add(button1);
        button1.addActionListener(this);
        button2=new Button("JAVA!");
        add(button2);
        button2.addActionListener(this);
    }

    public void actionPerformed(ActionEvent event)
    {
        if (event.getSource()==button1)
        {
            text1.setText("Welcome to");
        }
        if (event.getSource()==button2)
        {
```

```

        text1.setText("JAVA!");
    }
}

```

**clickers.html**

```

<html>

<! - Web page written for the SUN Aplet viewer>

<head>
<title>clickers</title>
</head>

<body>

<hr>
<applet
    code=clickers.class
    width=200
    height=200
>
</applet>

<hr>

</body>
</html>

```

**aim:-Adding textarea to an Applet****57.textarea.java**

```

import java.awt.*;
import java.applet.*;
import java.awt.event.*;

public class textarea extends Applet implements ActionListener
{
    TextArea textarea1;
    Button button1;

    public void init()
    {
        textarea1=new TextArea("",5,20);
        add(textarea1);
    }
}

```

```

        button1=new Button("Click Here!");
        add(button1);
        button1.addActionListener(this);
    }

    public void actionPerformed(ActionEvent event)
    {
        String msg=new String("Welcome to java\n");
        if (event.getSource()==button1)
        {
            textarea1.insert(msg,0);
        }
    }
}

```

**textarea.html**

```

<html>

<! - Web page written for the SUN Aplet viewer>

<head>
<title>textarea</title>
</head>

<body>

<hr>
<applet
    code=textarea.class
    width=200
    height=200
>
</applet>

<hr>

</body>
</html>

```

**58.adder.java**

```

import java.awt.*;
import java.applet.*;
import java.awt.event.*;

```

```

public class adder extends Applet implements ActionListener
{
    TextField text1,text2,answertext;
    Button button1;
    Label pluslabel;

    public void init()
    {
        text1=new TextField(10);
        add(text1);

        pluslabel=new Label("+");
        add(pluslabel);

        text2=new TextField(10);
        add(text2);

        button1=new Button("=");
        add(button1);
        button1.addActionListener(this);

        answertext=new TextField(20);
        add(answertext);
    }

    public void actionPerformed(ActionEvent event)
    {
        if (event.getSource()==button1)
        {
            int
sum=Integer.parseInt(text1.getText()+Integer.parseInt(text2.getText());
            answertext.setText(String.valueOf(sum));
        }
    }
}

```

**adder.html**

<html>

<! - Web page written for the SUN Aplet viewer>

<head>

<title>adder</title>

</head>

<body>

```

<hr>
<applet
  code=adder.class
  width=200
  height=200
>
</applet>

```

```

<hr>

```

```

</body>
</html>

```

### **59.addre2.java**

```

import java.awt.*;
import java.applet.*;
import java.awt.event.*;

```

```

public class adder2 extends Applet implements ActionListener
{
    TextField text1,text2,answertext;
    Button button1;
    Label pluslabel,blank1,blank2,blank3,fill1 ,fill2,fill3,fill4,
        fill5,fill6,fill7,fill8,fill9,fill10,
        spacer1,spacer2,spacer3,spacer4,spacer5,spacer6;

    public void init()
    {
        setLayout(new GridLayout(10,3));

        blank1=new Label();
        add(blank1);

        blank1=new Label();
        add(blank1);

        blank1=new Label();
        add(blank1);

        fill1=new Label();
        add(fill1);

        text1=new TextField(10);
    }
}

```

```
add(text1);

fill2=new Label();
add(fill2);

fill3=new Label();
add(fill3);

pluslabel=new Label("+");
add(pluslabel);

fill4=new Label();
add(fill4);

fill5=new Label();
add(fill5);

text2=new TextField(10);
add(text2);

fill6=new Label();
add(fill6);

spacer1=new Label();
add(spacer1);

spacer2=new Label();
add(spacer2);

spacer3=new Label();
add(spacer3);

fill7=new Label();
add(fill7);

button1=new Button("=");
add(button1);
button1.addActionListener(this);

fill8=new Label();
add(fill8);
```

```

        spacer4=new Label();
        add(spacer4);

        spacer5=new Label();
        add(spacer5);

        spacer6=new Label();
        add(spacer6);

        fill9=new Label();
        add(fill9);

        answertext=new TextField(20);
        add(answertext);

        fill10=new Label();
        add(fill10);
    }

    public void actionPerformed(ActionEvent event)
    {
        if (event.getSource()==button1)
        {
            int
sum=Integer.parseInt(text1.getText()+Integer.parseInt(text2.getText()));
            answertext.setText(String.valueOf(sum));
        }
    }
}

```

**adder2.html**

```
<html>
```

```
<! - Web page written for the SUN Aplet viewer>
```

```
<head>
```

```
<title>adder2</title>
```

```
</head>
```

```
<body>
```

```
<hr>
```

```
<applet
```

```
    code=adder2.class
```

```

        width=200
        height=200
    >
</applet>

<hr>

</body>
</html>

```

**60.clicker.java**

```

import java.applet.*;
import java.awt.*;
import java.awt.event.*;

public class checker extends Applet implements ItemListener
{
    Checkbox checkbox1,checkboxbox2,checkboxbox3,checkboxbox4,checkboxbox5;
    TextField text1;

    public void init()
    {
        checkbox1 = new Checkbox("1");
        add(checkboxbox1);
        checkbox1.addItemListener(this);
        checkbox2 = new Checkbox("2");
        add(checkboxbox2);
        checkbox2.addItemListener(this);
        checkbox3 = new Checkbox("3");
        add(checkboxbox3);
        checkbox3.addItemListener(this);
        checkbox4 = new Checkbox("4");
        add(checkboxbox4);
        checkbox4.addItemListener(this);
        checkbox5 = new Checkbox("5");
        add(checkboxbox5);
        checkbox5.addItemListener(this);
        text1=new TextField(20);
        add(text1);
    }

    public void itemStateChanged(ItemEvent e)
    {
        text1.setText("");
        if(e.getItemSelectable() == checkbox1)
            if(checkboxbox1.getState()==true)

```

```

        text1.setText("Check box 1 cliked!");
    if(e.getItemSelectable() == checkbox2)
        if(checkbox2.getState()==true)
            text1.setText("Check box 2 cliked!");
    if(e.getItemSelectable() == checkbox3)
        if(checkbox3.getState()==true)
            text1.setText("Check box 3 cliked!");
    if(e.getItemSelectable() == checkbox4)
        if(checkbox4.getState()==true)
            text1.setText("Check box 4 cliked!");
    if(e.getItemSelectable() == checkbox5)
        if(checkbox5.getState()==true)
            text1.setText("Check box 5 cliked!");
    }
}

```

**checker.html**

```
<html>
```

```
<! - Web page written for the SUN Aplet viewer>
```

```
<head>
```

```
<title>text</title>
```

```
</head>
```

```
<body>
```

```
<hr>
```

```
<applet
```

```
    code=checker.class
```

```
    width=300
```

```
    height=200
```

```
>
```

```
</applet>
```

```
<hr>
```

```
</body>
```

```
</html>
```

**61.radios.java**

```
import java.applet.*;
```

```
import java.awt.*;
```

```
import java.awt.event.*;
```

```
public class radios extends Applet implements ItemListener
```

```

{
    CheckboxGroup checkboxgroup1;
    Checkbox checkbox1,checkbox2,checkbox3,checkbox4,checkbox5;
    TextField text1;

    public void init()
    {
        checkboxgroup1 = new CheckboxGroup();

        checkbox1 = new Checkbox("1",false,checkboxgroup1);
        add(checkbox1);
        checkbox1.addItemListener(this);
        checkbox2 = new Checkbox("2",false,checkboxgroup1);
        add(checkbox2);
        checkbox2.addItemListener(this);
        checkbox3 = new Checkbox("3",false,checkboxgroup1);
        add(checkbox3);
        checkbox3.addItemListener(this);
        checkbox4 = new Checkbox("4",false,checkboxgroup1);
        add(checkbox4);
        checkbox4.addItemListener(this);
        checkbox5 = new Checkbox("5",false,checkboxgroup1);
        add(checkbox5);
        checkbox5.addItemListener(this);
        text1=new TextField(20);
        add(text1);
    }

    public void itemStateChanged(ItemEvent e)
    {
        text1.setText("");
        if(e.getItemSelectable() == checkbox1)
            text1.setText("Check box 1 clicked!");
        if(e.getItemSelectable() == checkbox2)
            text1.setText("Check box 2 clicked!");
        if(e.getItemSelectable() == checkbox3)
            text1.setText("Check box 3 clicked!");
        if(e.getItemSelectable() == checkbox4)
            text1.setText("Check box 4 clicked!");
        if(e.getItemSelectable() == checkbox5)
            text1.setText("Check box 5 clicked!");
    }
}

```

**radios.html**

&lt;html&gt;

```
<! - Web page written for the SUN Aplet viewer>
```

```
<head>
<title>text</title>
</head>

<body>

<hr>
<applet
    code=radios.class
    width=300
    height=200
>
</applet>

<hr>

</body>
</html>
```

### **62.checkpanels.java**

```
import java.applet.*;
import java.awt.*;

public class checkpanels extends Applet
{
    checkboxpanel panel1,panel2,panel3;

    public void init()
    {
        setLayout(new GridLayout(1,3));
        panel1 = new checkboxpanel();
        panel2 = new checkboxpanel();
        panel3 = new checkboxpanel();
        add(panel1);
        add(panel2);
        add(panel3);
    }
}

class checkboxpanel extends Panel
{
    Checkbox check1,check2,check3,check4;
```

```
checkboxpanel()  
{  
    check1 = new Checkbox("1");  
    add(check1);  
    check2 = new Checkbox("2");  
    add(check2);  
    check3 = new Checkbox("3");  
    add(check3);  
    check4 = new Checkbox("4");  
    add(check4);  
}  
}
```

### **checkpanels.html**

```
<html>  
  
<! - Web page written for the SUN Aplet viewer>  
  
<head>  
<title>text</title>  
</head>  
  
<body>  
  
<hr>  
<applet  
    code=checkpanels.class  
    width=200  
    height=200  
>  
</applet>  
  
<hr>  
  
</body>  
</html>
```