

Write(w):- File create if does not exist otherwise override.

Read(r):-Open file in read mode if exist.

Append(a):-Append the text if already exist.

Applet

Applet:- Application for internet.

These program are execute on web server.

It supports hot java background.

Life cycle of Applet program:-

```
import java.applet.*;
import java.awt.*;
public class Ajay extends Applet
{
    public void init()
    {
    }
    public void start()
    {
    }
    public void paint(Graphics g)
    {
    }
    public void update(Graphics g)
```

```
{  
}  
public void stop()  
{  
}  
public void destroy()  
{  
}  
}
```

Example 1:-

```
import java.applet.*;  
import java.awt.*;  
public class awt1 extends Applet  
{  
    public void paint(Graphics g)  
    {  
        g.drawLine(100,150,60,300);  
        g.drawRect(150,240,100,200);  
        g.drawOval(100,100,200,300);  
        setSize(500,500);  
    }  
}
```

Example 2:-

```
import java.applet.*;

import java.awt.*;

public class awt2 extends Applet
{
    public void paint(Graphics g)
    {
        g.drawLine(100,150,60,300);
        g.drawRect(150,240,100,200);
        g.clearRect(150,240,100,200);
        g.drawArc(100,200,300,400,500,300);
        g.fillOval(100,100,200,300);
        g.fillRect(150,240,100,200);
        g.fillArc(100,200,300,400,500,300);
        setSize(500,500);
    }
}
```

Example 3:-

```
import java.applet.*;

import java.awt.*;

public class awt3 extends Applet
{
```

```
public void start()
{
    setSize(500,500);
    setBackground(Color.red);
    setForeground(Color.yellow);
}

public void paint(Graphics g)
{
    while(true)
    {

        int r=(int)(Math.random()*255);
        int gr=(int)(Math.random()*255);
        int b=(int)(Math.random()*255);
        int x=(int)(Math.random()*300);
        int y=(int)(Math.random()*300);
        int h=(int)(Math.random()*100);
        int w=(int)(Math.random()*100);

        Color c=new Color(r,gr,b);
        g.setColor(c);
        g.fillOval(x,y,h,w);
        for(int i=0;i<1000000000;i++)
```

```
{  
}  
}  
}
```

Example 4:-

```
import java.applet.*;  
import java.awt.*;  
public class awt4 extends Applet  
{  
    public void start()  
    {  
        setSize(1000,1000);  
        setBackground(Color.green);  
        setForeground(Color.yellow);  
    }  
    public void paint(Graphics g)  
    {  
        g.fillRect(100,200,300,400);  
        g.fillOval(100,200,300,430);  
        g.drawRect(100,200,300,400);  
        g.drawOval(100,200,300,430);  
    }  
}
```

```
}
```

Example 5:-

```
import java.applet.*;
import java.awt.*;
import java.awt.Event.*;
public class awt5 extends Applet
{
    public void start()
    {
        setSize(1000,678);
        setBackground(Color.red);
        setForeground(Color.blue);
    }
    public void paint(Graphics g)
    {
        g.drawString("Ashwani kashyap",200,200);
        Font f=new Font("Monotype
        corsin",Font.BOLD|Font.ITALIC,36);
        g.setFont(f);
        g.drawString("Ashwani Kashyap",400,300);
        g.setColor(Color.green);
        g.drawString("gupta",400,500);
```

```
}  
}
```

Example 6:-

```
import java.applet.*;  
import java.awt.*;  
import java.awt.event.*;  
public class awt6 extends Applet implements  
ActionListener  
{  
int i=0;  
Button b1=new Button("Draw Oval");  
Button b2=new Button("draw Rectangel");  
public void start()  
{  
setSize(1300,1067);  
add(b1);  
add(b2);  
b1.addActionListener(this);  
b2.addActionListener(this);  
}  
public void paint(Graphics g)
```

```
{  
    switch(i)  
    {  
        case 1:  
            g.drawOval(500,200,500,100);  
            break;  
        case 2:  
            g.drawRect(600,200,600,100);  
            break;  
        default:  
            break;  
    }  
}  
  
public void actionPerformed(ActionEvent e)  
{  
    if(e.getSource()==b1)  
    {  
        i=1;  
    }  
    else if(e.getSource()==b2)
```



```
{  
i=2;  
}  
repaint();  
}  
}
```

Example 7:-

```
import java.applet.*;  
import java.awt.*;  
import java.awt.event.*;  
public class awt7 extends Applet implements  
ActionListener  
{  
Label i1=new Label("enter First value");  
Label i2=new Label("enter Second value");  
Label i3=new Label("result");  
TextField t1=new TextField(10);  
TextField T2=new TextField(10);  
  
Button b1=new Button("+");
```

```
Button b2=new Button("*");
Button b3=new Button("-");
Button b4=new Button("/");
Button b5=new Button("%");
public void start()
{
    setSize(500,600);
    setBackground(Color.red);
setForeground(Color.blue);

add(i1);
add(t1);
add(i2);
add(T2);
add(b1);
add(b2);
add(b3);
add(b4);
add(b5);
add(i3);
```

```
b1.addActionListener(this);
b2.addActionListener(this);
b3.addActionListener(this);
b4.addActionListener(this);
b5.addActionListener(this);
}

public void actionPerformed(ActionEvent e)
{
    int f=Integer.parseInt(t1.getText());
    int s=Integer.parseInt(T2.getText());
    if(e.getSource()==b1)
    {
        int r=f+s;
        i3.setText(""+r);
    }
    else if(e.getSource()==b2)
    {
        int r=f*s;
        i3.setText(""+r);
    }
}
```

```
else if(e.getSource()==b3)
{
    int r=f-s;
    i3.setText(""+r);
}
else if(e.getSource()==b4)
{
    int r=f/s;
    i3.setText(""+r);
}
else if(e.getSource()==b5)
{
    int r=f%s;
    i3.setText(""+r);
}
}
}
```

Example 8:-

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

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

public class awt8 extends Applet implements
ActionListener

{

Choice c=new Choice();

Button b=new Button("select");

Label t1=new Label("car:
");

Label t2=new Label("rate:
");

public void start()
{

    c.add("Maruti swaft");
    c.add("maruti 800");
    c.add("B M W");
    c.add("Bolero");

add(c);

add(b);

add(t1);

add(t2);
```

```
b.addActionListener(this);  
}  
public void actionPerformed(ActionEvent e)  
{  
    t1.setText("car:"+c.getSelectedItem());  
    switch(c.getSelectedIndex())  
    {  
        case 1:  
            t2.setText("rate 350000");  
            break;  
        case 2:  
            t2.setText("rate 350000");  
            break;  
        case 3:  
            t2.setText("rate 350000");  
            break;  
        case 4:  
            t2.setText("rate 350000");  
            break;  
    }
```

}

}

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