```
package JavaProject;

//OOPS Concepts
        class One {

                public void display() {

                System.out.println("One");

                }

                }

                //inheritance

                class Two extends One {

                @Override

                public void display() {

                System.out.println("Two");

                }

                public int add(int x, int y) {

                return x+y;
}

//Overload

public double add(double x,double y) {

return x+y;

}

}

//encapsulation example

class EncapTest {

private String name;

public String getName() {

return name;

}

public void setName(String newName) {

name = newName;

}
```

```
}
//abstraction
abstract class TwoWheeler {
public abstract void run();
}
class Honda extends TwoWheeler{
public void run(){
System.out.println("\nbike is Running..");
}
}
class MainClass {
public static void main(String[] args) {
One a=new One();
a.display();
```

```
                Two b=new Two();

                b.display();

                System.out.println(b.add(4,2));

                System.out.println(b.add(5.,2.)); //polymorphism

                EncapTest encap = new EncapTest();

                encap.setName("Sandeep's");

                System.out.print("Name : " + encap.getName() );

                TwoWheeler test = new Honda();

                test.run();

//Arithematic operators
        //public static void main(String[] args) {
                System.out.println("Arithematic operators are:");
                int a1 = 20;
                int b1 = 10;
                int sum = a1+b1;
                System.out.println("Sum is: "+(sum));
                System.out.println("Substraction is:" +(a1-b1));
                System.out.println("Multiplication is:" +(a1*b1));
                System.out.println("Division is:" +(a1/b1));
                System.out.println("Modulo is:" +(a1%b1));
```

```
//Assignment Operators
                int x = 35;
                x += 3;
                System.out.println("The Result is:" +(x));

                int num = 5;
                num-= 3;
                System.out.println(num);

                int Y = 5;
                Y*= 3;
                System.out.println(Y);

                int number= 60;
                number/=10;
                System.out.println(number);

                int n = 5;
                n >>= 3;
                System.out.println(n);

                int R = 5;
                R <<= 1;
                System.out.println(R);

                int K = 10;
                K ^= 2;
                System.out.println(K);
```

```
//comparison operators
int a11 = 4;
int b11 = 5;
System.out.println(a11>b11);

 int M = 10;
 int N = 5;
 System.out.println(M<N);

 int k = 3;
 int L = 3;
 System.out.println(K == L);

 int p = 5;
 int q = 3;
 System.out.println(p != q);

 int S = 5;
 int T = 3;
 System.out.println(S >= T);

 int num1 = 5;
 int num2 = 3;
 System.out.println(num1 <= num2);

//Logical operators
```

```
int N1 = 20;

System.out.println("The Result of AND is:" + (x > 6 && x < 10));


int Y1 = 17;

System.out.println("The result of OR is:" + (Y1 > 3 || Y1 < 4));


int Z = 5;

System.out.println("The result of NOT is:" +!(Z > 3 && Z < 10));


//Array

int a111[]=new int[5];//declaration and instantiation

a111[0]=10;//initialization

a111[1]=20;

a111[2]=70;

a111[3]=40;

a111[4]=50;

//traversing array

for(int i=0;i<a111.length;i++)//length is the property of array

System.out.println(a111[i]);


//for loop

int i;

for(i=1; i<=5; i=i+1)

{

   System.out.println("Welcome to Edubridge");

}


//while loop

int O = 1;
```

```
while(O<=5)
{
    System.out.println("Hello World");
O=O+1;

//do while loop
int var=1;
do
{
    System.out.println(var);
    var=var+1;
}
while(var<=10);

//break statement
int i1;
for(i1=2; i1<=50; i1=i1+2)
{
    if(i1==10)
    {
        break;
    }
    System.out.print(i1 + " ");
}
}
                              }
                              }
```