//Aim : string and stringbuffer class

import java.util.Scanner;

class Inheritance{

public static void main(String[] args) {

Scanner sc= new Scanner(System.in);

int k=0;

while(k<5){

System.out.println("\nSelect the Operation :\n");

System.out.println("1.Display array elements");

System.out.println("2.Display array sum");

System.out.println("3.Display array average");

System.out.println("4.Display array maximum");

System.out.println("5.break");

k=sc.nextInt();

Menu m=new Menu(k);

}

}

}

class Array{

public int[] a = new int[]{ 1,2,3,4,5,6,7,8,9,10 };

}

class Menu extends Array{

int i,sum=0,avg=0,max=0;

Menu(int k){

switch (k) {

case 1:

for(i=0;i<a.length;i++){

System.out.print(a[i]);

}

break;

case 2:

for(i=0;i<a.length;i++){

sum+=a[i];

}

System.out.println("sum :"+sum);

break;

case 3:

for(i=0;i<a.length;i++){

sum+=a[i];

}

avg=sum/a.length;

System.out.println("average: "+avg);

break;

case 4:

for(i=0;i<a.length;i++){

if(a[i]>max){

max=a[i];

}

}

System.out.println("max "+max);

break;

default:

break;

}

}

}

**Output**

C:\Users\Nikhil\Desktop\bsc cs\sem 3 practical\java>javac Inheritance.java

C:\Users\Nikhil\Desktop\bsc cs\sem 3 practical\java>java Inheritance

Select the Operation :

1.Display array elements

2.Display array sum

3.Display array average

4.Display array maximum

5.break

1

12345678910

Select the Operation :

1.Display array elements

2.Display array sum

3.Display array average

4.Display array maximum

5.break

2

sum :55

Select the Operation :

1.Display array elements

2.Display array sum

3.Display array average

4.Display array maximum

5.break

3

average: 5

Select the Operation :

1.Display array elements

2.Display array sum

3.Display array average

4.Display array maximum

5.break

4

max 10

Select the Operation :

1.Display array elements

2.Display array sum

3.Display array average

4.Display array maximum

5.break

5