**Aim:-** To write a Java program to display default value of all primitive data type of JAVA

**Program:-**

class Defaultvalues

{

static byte b;

static short s;

static int j;

static long l;

static float f;

static double d;

static char c;

static boolean bl;

public static void main (String[] args)

{

System.out.println("byte:"+b);

System.out.println("short:"+s);

System.out.println("int:"+j);

System.out.println("long:"+l);

System.out.println("float:"+f);

System.out.println("double:"+d);

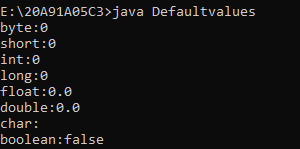
System.out.println("char:"+c);

System.out.println("boolean:"+bl);

}

}

**Output:**



**Aim:-** To w rite a Java program to find the discriminant value D and find out the roots of the quadratic equation of theformax2+bx+c=0

**Program:-**

class Quadraticequation

{

public static void main(String[] Strings)

{

double a=Double.parseDouble(Strings[0]);

double b=Double.parseDouble(Strings[1]);

double c=Double.parseDouble(Strings[2]);

double d=b \*b -4.0 \* a \*c;

System.out.println("discriminent value:" +Math.pow(d,0.5));

if(Double.isNaN(d))

System.out.println("equation has no roots");

if(d>0.0)

{

double r1=(-b+Math.pow(d,0.5))/(2.0\*a);

double r2=(-b-Math.pow(d,0.5))/(2.0\*a);

System.out.println("the roots are"+r1+"and"+r2);

}

else if(d==0.0)

{

double r1=-b/(2.0\*a);

System.out.println("the root is:"+r1);

}

else

{

System.out.println("roots are not real");

}

}

}

**Output:**



**Aim:-**  To find the racers whose speed is greater than the average speed

import java.io.\*;

import java.util.\*;

class Bikers

{

static float S1,S2,S3,S4,S5;

static float AvgSpeed;

public static void main(String args[ ])

{

Scanner input = new Scanner(System.in);

System.out.println(" Enter Speed of five Bike Racer");

S1 = input.nextInt();

S2 = input.nextInt();

S3 = input.nextInt();

S4 = input.nextInt();

S5 = input.nextInt();

AvgSpeed=(S1+S2+S2+S3+S4+S5)/5;

if( S1>AvgSpeed)

System.out.println("The Speed of Qualifying Racer is"+S1);

if( S2>AvgSpeed)

System.out.println(" The Speed of Qualifying Racer is"+S2);

if( S3>AvgSpeed)

System.out.println(" The Speed of Qualifying Racer is"+S3);

if( S4>AvgSpeed)

System.out.println(" The Speed of Qualifying Racer is"+S4);

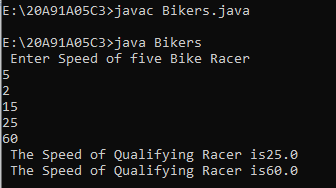
if( S5>AvgSpeed)

System.out.println(" The Speed of Qualifying Racer is"+S5);

}

}

**Output:**



**Aim:-** To write a Java program to select all the prime numbers within the range of 1to100

**Program:-**

class Primenumbers

{

public static void main(String[] args)

{

int ct=0,n=0,i=1,j=1;

while(n<25){

j=1;

ct=0;

while(j<=i){

if(i%j==0)

ct++;

j++;

}

if(ct==2){

System.out.printf("%d ",i);

n++;

}

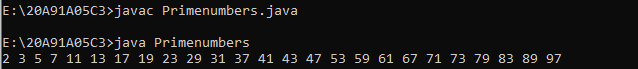
i++;

}

}

}

**Output:**



**Aim:-** To write a Java program to Find the sum of all even terms in the Fibonacci sequence up To the given range N

**Program:-**

import java.util.Scanner;

public class Fibonacci\_even

{

public static void main(String args[])

{

int f=0,s=1;

int t=0,sum=0;

int a[]=new int[100];

Scanner input=new Scanner(System.in);

a[0]=0;

a[1]=1;

System.out.println("enter rhe range for fibonacci series:");

int range=input.nextInt();

System.out.println("the fibonacci series is as follows:");

System.out.print(0);

System.out.print(" "+1);

for(int i=2;i<range;i++)

{

t=f+s;

System.out.print(" "+t);

a[i]=t;

f=s;

s=t;

}

for(int i=2;i<=range;i++)

{

if(i%2==0)

sum=sum+a[i];

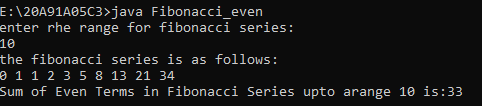
}

System.out.println("\n"+"Sum of Even Terms in Fibonacci Series upto arange "+range+" is:"+sum);

}

}

**Output:**



**Aim:-** To write a Java program to check whether a given number is Armstrong or not.

**Program:-**

class Armstrong

{

public static void main (String[] args)

{

int number=1634,originalNumber,remainder,result=0,n=0;

originalNumber=number;

for(;originalNumber!=0;originalNumber/=10,++n);

originalNumber=number;

for(;originalNumber!=0;originalNumber/=10)

{

remainder=originalNumber%10;

result+=Math.pow(remainder, n);

}

if(result==number)

System.out.println(number +" is an armstrong number,");

else

System.out.println(number +" is not an armstrong number,");

}

}

**Output:**

