**lab#02**

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**section** E

**mentor**: sAna fatima

1. Write a Java program to concatenate a given string to the end of another string

CODE:

class Exercise1

{

public static void main(String args[])

{

String line1=" Deepak totani ";

String line2=" I am from mithi ";

System.out.println(line1+line2);

}

}

1. Write a program that computes your initials from your full name and displays them

CODE:

class Lab2\_02

{

public static void main(String args[])

{

String a1="Deepak Totani";

System.out.println(a1.substring(0,1));

System.out.println(a1.substring(7,8));

}

}

1. Write a Java program to replace each substring of below given sample string
   1. Sample string: "The quick brown fox jumps over the lazy dog."
   2. In the above string replace all the fox with cat

CODE:

class Exercise3

{

public static void main(String args[])

{

String line="The quick brown fox jumps over the lazy dog.";

line=line.replaceAll("fox","cat");

System.out.print(line);

}

}

1. Write a program to print prime number less than 600 and print out the numbers in table format on cmd

CODE:

class Lab2\_04{

public static void main(String args[]){

int check=0;

for(int i=2;i<600;i++)

{

for (int j=1;j<=i;j++){

if (i%j==0)

check ++;

}

if (check==2)

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

check = 0;

}

}

}

.

1. Write a program which solves quadratic equations of the form: ax2 + bx + c = 0. Values of a, b, c can be taken as input from user.

CODE:

import java.util.Scanner;

public class QuadraticEquationExample1

{

public static void main(String[] Strings)

{

Scanner input = new Scanner(System.in);

System.out.print("Enter the value of a: ");

double a = input.nextDouble();

System.out.print("Enter the value of b: ");

double b = input.nextDouble();

System.out.print("Enter the value of c: ");

double c = input.nextDouble();

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

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.");

}

}

}

1. Write code that creates an array named odds and stores all odd numbers between 1 and 30 into it using a for loop.

CODE:

class Exercise6

{

public static void main (String[] args)

{

int odds[]=new int[15];

int k=0;

for(int i=1; i<=30; i++)

{

if(i % 2 != 0)

{

odds[k]=i;

k++;

}

}

for(int i=0; i<15; i++)

{

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

}

}

}

1. Write a Java program to round up the result of variable division

import java.util.Scanner;

class Exercise7

{

public static void main(String args[])

{

Scanner sc=new Scanner(System.in);

double a,b,temp;

a=sc.nextDouble();

System.out.println("First value: "+a);

b=sc.nextDouble();

System.out.println("Second value: "+b);

temp=a/b;

System.out.println("Final value: "+Math.round(temp));

}

}