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**Roll: 2K19/CO/450**

**Subject : Java Lab**

**Group : G3**

**Date :02/09/2021**

**LAB ASSIGNMENT 02**

**1. Java Program to Find Factorial of a Number**

**Code:**

public class Factorial{

public static void main(String args[]){

int i,fact=1;

int number=5;//It is the number to calculate factorial

for(i=1;i<=number;i++){

fact=fact\*i;

}

System.out.println("Factorial of "+number+" is: "+fact);

}

}

**Output:**



**2. Java Program to Check Whether a Character is Alphabet or Not**

**Code:**

import java.util.Scanner;

public class Alphabet {

public static void main(String args[]){

System.out.println("Enter a character :: ");

Scanner sc = new Scanner(System.in);

char ch = sc.next().charAt(0);

if(((ch >= 'A' && ch <= 'Z')||ch >= 'a' && ch <= 'z') ){

System.out.println(sc +" is an Alphabet");

}else{

System.out.println( sc +" is not an alphabet");

}

}

**Output:**



**3. Java Program to Count Number of Digits in an Integer**

**Code :**

import java.util.Scanner;

public class CountingDigitsInInteger {

public static void main(String args[]){

Scanner sc = new Scanner(System.in);

int count = 0;

System.out.println("Enter a number ::");

int num = sc.nextInt();

while(num!=0){

num = num/10;

count++;

}

System.out.println("Number of digits in the entered integer are :: "+count);

}

}

**Output:**



**4. Java Program to Make a Simple Calculator Using switch...case**

**Code:**

import java.util.Scanner;

public class ab39\_CalculatorUsingSwitch {

public static void main(String args[]) {

Scanner sc = new Scanner(System.in);

System.out.println("Enter value of 1st number ::");

int a = sc.nextInt();

System.out.println("Enter value of 2nd number ::");

int b = sc.nextInt();

System.out.println("Select operation");

System.out.println("Addition-a: Subtraction-s: Multiplication-m: Division-d: ");

char ch = sc.next().charAt(0);

switch(ch) {

case 'a' :

System.out.println("Sum of the given two numbers: "+(a+b));

break;

case 's' :

System.out.println("Difference between the two numbers: "+(a-b));

break;

case 'm' :

System.out.println("Product of the two numbers: "+(a\*b));

case 'd' :

System.out.println("Result of the division: "+(a/b));

break;

default :

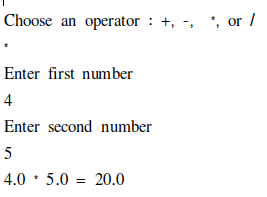
System.out.println("Invalid grade");

}

}

}

**Output:**



**5. Java Code To Create Pyramid Pattern**

**Code:**

Public class main {

public static void main(String[] args) {

int rows = 5;

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

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

System.out.print("\* ");

}

System.out.println();

}

}

**Output :**

