**Task :Introduction to Java**

1.Write a java program that declares four integer variables : a,b,c,d .Then write an if statement that checks whether the sum of a and b is greater than the sum of c and d . If the condition is true , the program should output a message indicating that the sum of a and b is greater than the sum of c and d.

import java.util.Scanner;

public class Main {

public static void main(String[] args) {

Scanner sc = new Scanner(System.in);

int a = sc.nextInt();

int b = sc.nextInt();

int c = sc.nextInt();

int d = sc.nextInt();

int sum = a+b;

int sum2 = c+d;

if (sum > sum2)

{

System.out.println(" sum of a and b is greater than the sum of c and d");

}

else

{

System.out.println("sum of c and d is greater than the sum of a and b");

}

}

}

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2.Have a variable store an integer.Create an if statement to find out if it’s an even number .

import java.util.Scanner;

public class Main {

public static void main(String[] args) {

Scanner obj = new Scanner(System.in);

int num = obj.nextInt();

if (num%2==0)

{

System.out.println("It is a even number:"+num);

}

else{

System.out.println("It is a odd number:"+num);

}

}

}

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3.Write a program to print characters from A to Z.

import java.util.Scanner;

public class Main {

public static void main(String[] args) {

char chara;

for (chara ='A';chara <='Z';++chara)

{

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

}

}

}

4.Write a java program to get 2 numbers from users and swap them without any loss of data.you can make use of additional variable for swapping /Print the corresponding swapped values in console.

import java.util.Scanner;

public class Main {

public static void main(String[] args) {

Scanner sc = new Scanner(System.in);

int a = sc.nextInt();

int b = sc.nextInt();

int c = sc.nextInt();

c = a;

a = b;

b = c;

System.out.println("After swapping : Value of a is "+a);

System.out.println("After swapping : Value of b is "+b);

}

}

5.Write a program to check number is prime or not.

import java.util.Scanner;

public class Main {

public static void main(String[] args) {

Scanner sc = new Scanner(System.in);

int a = sc.nextInt();

boolean flag = false;

for (int i=2;i<=a/2;++i)

{

if (a%i==0)

{

flag = true;

break;

}

}

if (!flag)

System.out.println("Prime number :"+a);

else

System.out.println("Not a prime number:"+a);

}

}

6.Find factorial of number

public class Main {

public static void main(String[] args) {

Scanner sc = new Scanner (System.in);

int value = sc.nextInt();

int calc = 1;

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

{

calc=calc\*i;

}

System.out.println ("Factorial for" +value+"is" +calc);

}

}

7.Write a program to print length of given string

String msg= “Guvi Geeks”

import java.util.Scanner;

public class Main {

public static void main(String[] args) {

Scanner sc = new Scanner(System.in);

String word = sc.nextLine();

int total = word.length();

System.out.println("Total letters is" +total);

}}

8.Write a program to print “Welcome to Guvi” 10times.

import java.util.Scanner;

public class Main {

public static void main(String[] args) {

Scanner sc = new Scanner(System.in);

String word = sc.nextLine();

int count =10;

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

{

System.out.println(word);

}

}}

9.Write a program to check whether a person is senior citizen or not.

import java.util.Scanner;

public class Main {

public static void main(String[] args) {

Scanner sc = new Scanner(System.in);

String name = sc.nextLine();

int age = sc.nextInt();

if (age<60)

{

System.out.println("Not a senior citizen:"+name);

}

else

{

System.out.println("Senior Citizen:"+name);

}

}

}

10.Write a program to count number of digits in a integer.

import java.util.Scanner;

public class Main {

public static void main(String[] args) {

Scanner sc = new Scanner (System.in);

int number = sc.nextInt();

int count=0;

while(number>0)

{

number = number /10;

count++;

}

System.out.println("Total number of digits"+count);

}

}