**INTRODUCTION TO JAVA – TASK 4**

**Q1 Program:**

import java.util.Scanner;

public class Main {

public static void main(String[] args) {

Scanner obj = new Scanner(System.in);

int a = obj.nextInt();

int b = obj.nextInt();

int c = obj.nextInt();

int d = obj.nextInt();

int y=a+b;

int z=c+d;

if(y>z){

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

}else{

System.out.println(z);

}

}

}

**Q1 Test result:**

A screenshot of a computer

Description automatically generated

**Q2 Program:**

import java.util.Scanner;

public class Main {

public static void main(String[] args) {

Scanner obj = new Scanner(System.in);

int a = obj.nextInt();

if(a % 2==0){

System.out.println("It's an Even Number");

}

else{

System.out.println("It's not an Even Number");

}

}

}

**Q2 Test Result :**

A screenshot of a computer

Description automatically generated

**Q3 Program:**

import java.util.Scanner;

public class Main {

public static void main(String[] args) {

char i;

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

{

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

}

}

}

**Q3 Test Result:**

A screenshot of a computer

Description automatically generated

**Q4 Program :**

import java.util.Scanner;

public class Factorial {

public static void main(String[] args) {

Scanner obj = new Scanner(System.in);

int a = obj.nextInt();

System.out.println("a is "+a);

int b = obj.nextInt();

System.out.println("b is "+b);

int c = a;

a = b;

b = c;

System.out.println(" ");

System.out.println("After Swapping a & b ");

System.out.println("a is "+a);

System.out.println("b is "+b);

}

}

**Q4 Test Result:**

**A screenshot of a computer

Description automatically generated**

**Q5**.

import java.util.Scanner;

public class Factorial {

public static void main(String[] args) {

Scanner obj = new Scanner(System.in);

boolean primeFlag = false;

int a = obj.nextInt();

if(a<=1){

System.out.println("not a prime number");

}else if(a % 2==0){

System.out.println("not a prime number");

}else{

for(int i=3 ; i< a/2 ; i=i+2){

if(a % i==0){

primeFlag = true;

System.out.println("not a prime number");

break;

}

}

if(primeFlag != true){

System.out.println("It’s a prime number");

}

}

}

}

**Q5 Test Result:**

**A screenshot of a computer

Description automatically generated**

**Q6 Program :**

import java.util.Scanner;

public class Factorial {

public static void main(String[] args) {

Scanner obj = new Scanner(System.in);

int a = obj.nextInt();

int f = 1;

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

{

// factorial = factorial \* i;

f \*= i;

}

System.out.printf("Factorial of num is " + f);

}

}

**Q6 Test Result :**

**A screenshot of a computer

Description automatically generated**

**Q7 Program :**

import java.util.Scanner;

public class Main {

public static void main(String[] args) {

Scanner obj = new Scanner(System.in);

String msg="Guvi Geek";

System.out.println("String Length : " + msg.length());

}

}

**Q7 Test Result :**

A screenshot of a computer

Description automatically generated

**Q8 Program :**

import java.util.Scanner;

public class Main {

public static void main(String[] args) {

Scanner obj = new Scanner(System.in);

String msg="Welcome to Guvi";

for(int i=0;i<=9;i++)

{

System.out.println(msg);

}

}

}

**Q8 Test Result :**

A screenshot of a computer

Description automatically generated

**Q9 Program :**

import java.util.Scanner;

public class Main {

public static void main(String[] args) {

Scanner obj = new Scanner(System.in);

int a = obj.nextInt();

if (a>60){

System.out.println("He/She is a Senior Citizen");

}else{

System.out.println("He/She is not a Senior Citizen");

}

}

}

**Q9 Test Result :**

A screenshot of a computer

Description automatically generated

**Q10 Program :**

import java.util.Scanner;

public class Main {

public static void main(String[] args) {

Scanner obj = new Scanner(System.in);

int a=obj.nextInt();

int c=0;

while(a!=0)

{

a /= 10;

c++;

}

System.out.println("Number of digits: " + c);

}

}

**Q10 Test Result :**

A screenshot of a computer

Description automatically generated