**Tutorial 2**

**Question 1 -**

import java.util. \*;

public class Tut2Q1{

public static void main (String[] args)

{

Scanner input = new Scanner (System.in) ;

System.out.println ("Insert 1st no:") ;

double first = input.nextDouble();

Scanner input2= new Scanner (System.in) ;

System.out.println ("Insert 2nd no:") ;

double second = input2.nextDouble();

System.out.println (first + second);

}

}

**Question 2 -**

import java.util.\*;

public class Tut2Q2 {

public static void main(String[] args){

Scanner s=new Scanner(System.in);

System.out.println("Enter ur age");

int number = s.nextInt();

if (number < 0){

System.out.println("the age entered is incorrect");

}

else if(number < 18){

System.out.println("Below 18");

}

else if(number >= 18){

System.out.println("Over 18");

}

}

}

**Question 3 -**

import java.util. \*;

public class Tut2Q3{

public static void main (String[] args)

{

Scanner input = new Scanner (System.in) ;

System.out.println ("Insert your ICT marks:") ;

double ICT = input.nextDouble();

Scanner input2= new Scanner (System.in) ;

System.out.println ("Insert your CW marks:") ;

double CW = input2.nextDouble();

double Sum = ((ICT + CW) / 2) ;

if (ICT > 30 || CW > 30){

System.out.println("pass");

}

else if(Sum > 30){

System.out.println("Pass");

}

else{

System.out.println("Fail");

}

}

}

**Question 4 -**

import java.util.\*;

public class Tut2Q4 {

public static void main(String[] args) {

Scanner scanner = new Scanner(System.in);

System.out.print("Enter the grade: ");

int grade = scanner.nextInt();

String classification;

if (grade < 0 || grade > 100) {

classification = "Invalid value";

}

else if (grade >= 70) {

if (grade >= 100) {

classification = "Invalid value";

} else {

classification = "1st Class Honours (1)";

}

} else if (grade >= 60) {

classification = "2+ Class Honours Upper Division (2:1)";

} else if (grade >= 50) {

classification = "2- Class Honours Lower Division (2:2)";

} else if (grade >= 40) {

classification = "3rd Class Honours (3)";

} else {

classification = "Invalid value";

}

System.out.println("Classification: " + classification);

}

}

**Question 5 -**

import java.util.Scanner;

public class Tut2Q5 {

public static void main(String[] args) {

Scanner scanner = new Scanner(System.in);

System.out.print("Insert 1st no: ");

int num1 = scanner.nextInt();

System.out.print("Insert 2nd no: ");

int num2 = scanner.nextInt();

System.out.print("Enter an operator (+, -, \*, /): ");

char op = scanner.next().charAt(0);

int calculation;

switch (op) {

case '+':

calculation = num1 + num2;

System.out.println("Addition");

break;

case '-':

calculation = num1 - num2;

System.out.println("Subtraction");

break;

case '\*':

calculation = num1 \* num2;

System.out.println("Multiplication");

break;

case '/':

if (num2 != 0) {

calculation = num1 / num2;

System.out.println("Division");

} else {

System.out.println("Cannot divide by zero!");

return;

}

break;

default:

System.out.println("Something invalid");

return;

}

System.out.println("Calculation: " + calculation);

}

}