

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);
```

```
}
```

```
}
```