## **Tutorial 2**

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Q1

```
import java.util.Scanner;
public class Tut_2_1{
    public static void main(String[] args) {
        Scanner input = new Scanner(System.in);
        System.out.print("Enter num1 :");
        double num1 = input.nextDouble();
        System.out.print("Enter num2 :");
        double num2 = input.nextDouble();
        double sum = num1 + num2;
        System.out.println(num1+" + " + num2+" = "+sum);
    }
}
```

Q2

```
import java.util.Scanner;
public class Tut_2_2{
   public static void main(String[] args){
        Scanner input = new Scanner(System.in);
        System.out.print("Enter your age : ");
        int age = input.nextInt();
        if(age>=18){
             System.out.println("Over 18");
        } else if (age>=0) {
             System.out.println("Under 18");
        }else{
             System.out.println("The age entered is incorrect.");
        }
    }
}
```

Q4

```
import java.util.Scanner;
public class Tut_2_4{
    public static void main(String[] args){
        String classification = "";
        Scanner input = new Scanner(System.in);
        System.out.print("Enter your score : ");
        int score = input.nextInt();
        if(score>100 || score<40){
            classification = "Invalid Value";
        } else if (score>=70 ) {
            classification = "1st Class Honours (1)";
        } else if (score>=60) {
            classification = "2nd Class Honours Upper Division (2:i)";
        } else if (score>=50) {
            classification = "2nd Class Honours Lower Division (2:ii)";
        } else {
            classification = "3rd Class Honours (3)";
        }
        System.out.println(classification);
    }
}
```

06

```
import java.util.Scanner;
public class Tut_2_6{
    public static void main(String[] args){
        String msg ="";
        Scanner input = new Scanner(System.in);
        System.out.print("Number of class held : ");
        float totCls = input.nextInt();
        System.out.print("Number of class attended : ");
        float attCls = input.nextInt();
        float atdPc = (attCls/totCls)*100;
        if(atdPc>=75){
            msg = "You are allowed to sit in exam.";
        }else{
            System.out.print("Had a medical cause ?(Y/N) ");
            String med = input.next();
            if(med.equals("Y")) {
                  msg = "Pls. contact SRU ";
            } else if (med.equals("N")) {
                  msg = "You are not allowed to sit in exam.";
            }
        }
        System.out.println("Your attendance percentage is "+atdPc+"%\n"+msg);
      }
}
```

```
import java.util.Scanner;
   public static void main(String[] args){
       Scanner input = new Scanner(System.in);
       float accBalance = input.nextFloat();
                    System.out.print("Deposit : ");
                    dep = input.nextFloat();
                    System.out.print("Withdraw : ");
                    wid = input.nextFloat();
                       System.out.println("You can't withdraw money. Your
                    if (frdLimit>accBalance) {
                   System.out.println("your account balance is
```

```
import java.util.Scanner;
    public static void main(String[] args) {
        Scanner input = new Scanner(System.in);
        int userChoice = input.nextInt();
            System.out.println("Invalid input!");
        }else if ((randomNum==0 && userChoice==2) ||(randomNum==2 &&
userChoice==1) ||(randomNum==1 && userChoice==0)) {
        System.out.println("Computer :"+rand);
```

Program B and C are equivalent. Program A the condition part is different.

```
Q9
    int i = 1;
    i += ++i + i++ + ++i;
    int j = 1;
    j += ++j +j++ ++j;
    int k = 1;
    k += k++ + k++ + ++k;
    System.out.println("i = " + i);
    System.out.println("j = " + j);
    System.out.println("k = " + k);

Q10

if (age < 17 || age > 85)
    { // don't drive!}
```