OOP I

Lab sheet 1

- Q1

```
J q1.java > ᕴ q1 > ⬡ main(String[])
1    public class q1 {
         Run | Debug
2        public static void main(String[] args){
3 💡         System.out.println(x:"Welcome to Java Programing!");
4        }
5    }
6
```

Output -

```
Welcome to Java Programing!
```

- Q2

```
J q2.java > ᕴ q2 > ⬡ main(String[])
1    public class q2 {
         Run | Debug
2        public static void main(String[] args){
3            System.out.println(x:"Welcome");
4            System.out.println(x:"to");
5            System.out.println(x:"Java");
6 💡         System.out.println(x:"Programing!");
7        }
8    }
9
```

Output –

```
Welcome
to
Java
Programing!
```

- Q3

```java
public class q3 {

    Run | Debug
    public static void main(String[] args) {
        System.out.println(x:"USER INFORMATION");
        System.out.println(x:"----------------------------");
        System.out.println(x:"NAME\t: NIMAL PERERA");
        System.out.println(x:"ADDRESS\t: No.23, PANADURA");
        System.out.println(x:"AGE\t: 19");
        System.out.println(x:"SALARY\t: 23500");
        System.out.println(x:"GENDER\t: M");
        System.out.println(x:"----------------------------");
    }
}
```

Output –

```
USER INFORMATION
----------------------------
NAME     : NIMAL PERERA
ADDRESS : No.23, PANADURA
AGE      : 19
SALARY   : 23500
GENDER   : M
----------------------------
```

- Q4

```java
import java.util.Scanner;
public class q4 {
    Run | Debug
    public static void main(String[] args){
        Scanner input1 = new Scanner(System.in);
        String name = input1.nextLine();
        int age = input1.nextInt();
        input1.nextLine();
        String address = input1.nextLine();
        System.out.println(x:" ");
        System.out.println("name :"+name);
        System.out.println("age :"+age);
        System.out.println("address :"+address);
    }
}
```

Output –

```
kamal
63
24/B, kandawala paara, rathmalana

name :kamal
age :63
address :24/B, kandawala paara, rathmalana
PS C:\Users\User\Desktop\New folder>  c:; cd 'c
DetailsInExceptionMessages' '-cp' 'C:\Users\User
```

- Q5

```java
public class q5 {
    Run | Debug
    public static void main(String[] args){
        int a1 = -1+4*6;
        int a2 = (35+5)%7;
        int a3 = 14+-4*6/11;
        int a4 = 2 + 15 / 6 * 1 - 7 % 2;
        System.out.println("-1 + 4 * 6 = "+a1);
        System.out.println("(35+ 5 ) % 7 = "+a2);
        System.out.println("14 + -4 * 6 / 11 = "+a3);
        System.out.println(" 2 + 15 / 6 * 1 - 7 % 2 = "+a4);
    }
}
```

Output -

```
cc6\bin' 'q5'
-1 + 4 * 6 = 23
(35+ 5 ) % 7 = 5
14 + -4 * 6 / 11 = 12
 2 + 15 / 6 * 1 - 7 % 2 = 3
PS C:\Users\User\Desktop\New folder>
```

- Q6

```java
import java.util.Scanner;

public class q6 {
    public static void main(String[] args){
        int total=0;
        Scanner num = new Scanner(System.in);
        for(int i=0;i<5;i++)
        {
            System.out.println("Enter the subject marks "+(i+1));
            int n=num.nextInt();
            total=total+n;
        }
        float pre=total/5;
        System.out.println("Your Total is : "+total);
        System.out.println("Your Percentage is : "+pre+"%");

    }
}
```

Output –

```
\User\AppData\Roaming\Code\User\workspaceStorage\965c81ef785f
Enter the subject marks 1
5
Enter the subject marks 2
5
Enter the subject marks 3
5
Enter the subject marks 4
5
Enter the subject marks 5
5
Your Total is : 25
Your Percentage is : 5.0%
```

- Q7

```java
J q7.java > q7 > main(String[])
1    import java.util.Scanner;
2
3    public class q7{
        Run | Debug
4        public static void main(String[] args){
5            Scanner temp = new Scanner(System.in);
6            System.out.println(x:"Type your Celcius tempreture :");
7            double tem = temp.nextDouble();
8            double fah = (tem*1.8)+32;
9            System.out.println("Your tempreture in Fahrenheit : "+fah);
10       }
11   }
```

Output -

```
cco\bin    q7
Type your Celcius tempreture :
43.56
Your tempreture in Fahrenheit : 110.408
PS C:\Users\User\Desktop\New folder>
```

- Q8

```java
J q8.java
1    import java.util.Scanner;
2  ∨ public class q8 {
3  ∨     public static void main(String[] args) {
4            Scanner input = new Scanner(System.in);
5            System.out.println("Enter num 1");
6            int n1 = input.nextInt();
7            System.out.println("Enter num 2");
8            int n2 = input.nextInt();
9            n1=n1+n2;
10           n2=n1-n2;
11           n1=n1-n2;
12           System.out.println("New num 1 : "+n1);
13           System.out.println("New num 2 : "+n2);
14
15       }
16   }
```

Output -

```
Enter num 1
23
Enter num 2
34
New num 1 : 34
New num 2 : 23
```

- Q9

```java
import java.util.Scanner;
public class q9 {
    Run | Debug
    public static void main(String[] args) {
        Scanner bmi = new Scanner(System.in);
        System.out.println(x:"Enter Height in meters:");
        float h = bmi.nextFloat();
        System.out.println(x:"Enter Weight in kilograms:");
        float w = bmi.nextFloat();
        float Bmi = w/(h*h);
        if(Bmi<18.5)
        {
            System.out.println(x:"You are Underweight");
        }
        else if(18.5 <= Bmi && Bmi <= 24.9)
        {
            System.out.println(x:"You are Normal");
        }
        else if(25 <= Bmi && Bmi <= 29.9)
        {
            System.out.println(x:"You are Overweight");
        }
        else if(30 <= Bmi)
        {
            System.out.println(x:"You are Obese");
        }
```

Output -

```
cc6\bin  q9
Enter Height in meters:
1.70
Enter Weight in kilograms:
60
You are Normal
PS C:\Users\User\Desktop\New folder>
```

- Q10

```java
public class q10{
    public static void main(String[] args) {
        for(int i = 1; i<7; i++)
        {
            for(int j=1; j<i; j++)
            {
                System.out.print(s:"* ");
            }
            System.out.println();
        }
    }
}
```

Output -

```
*
* *
* * *
* * * *
* * * * *
PS C:\Users\User\Desktop\New folder>
```