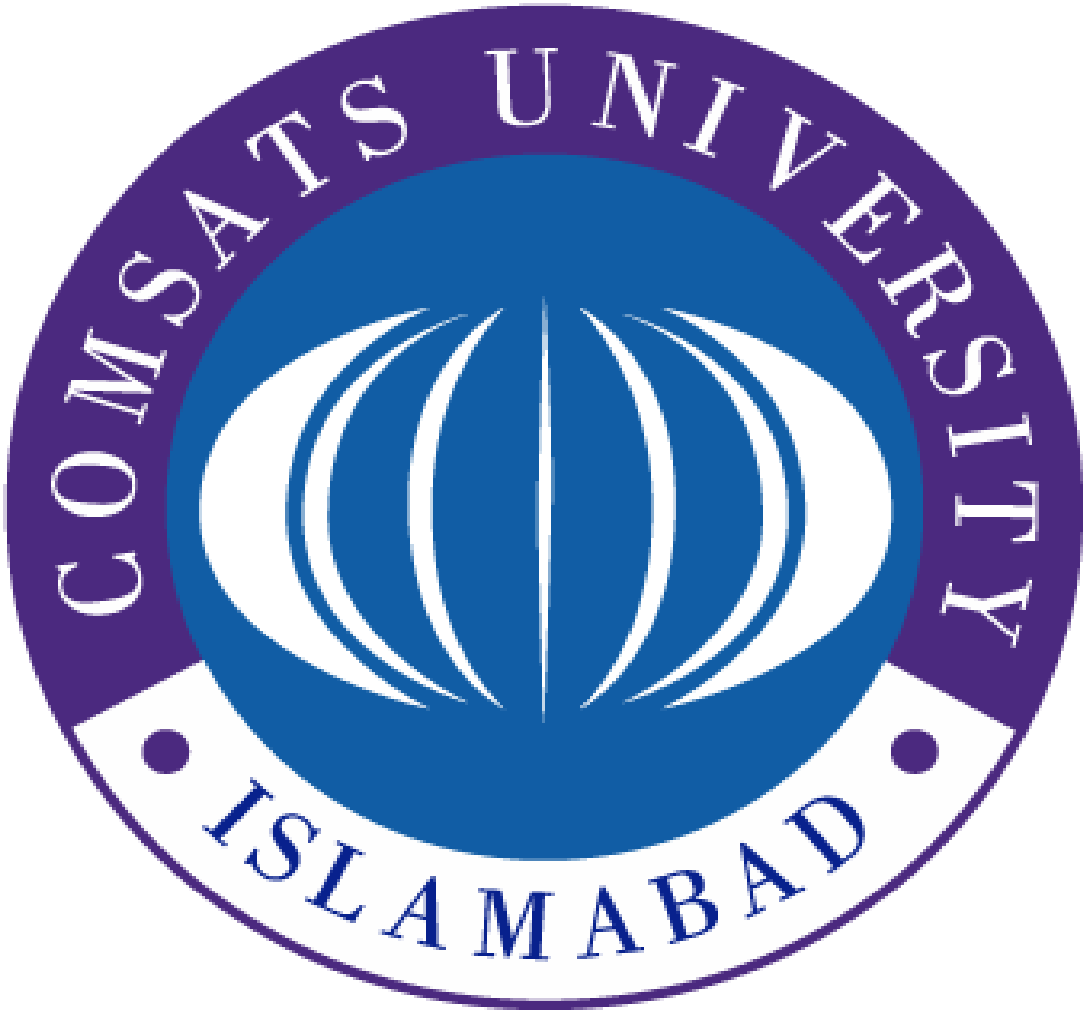


ASSIGNMENT # 02

NAME : MOHSIN YASEEN

CLASS : BSE 3C

SUBJECT : OOP

REG NO : FA24-BSE-058

Q NO 1:

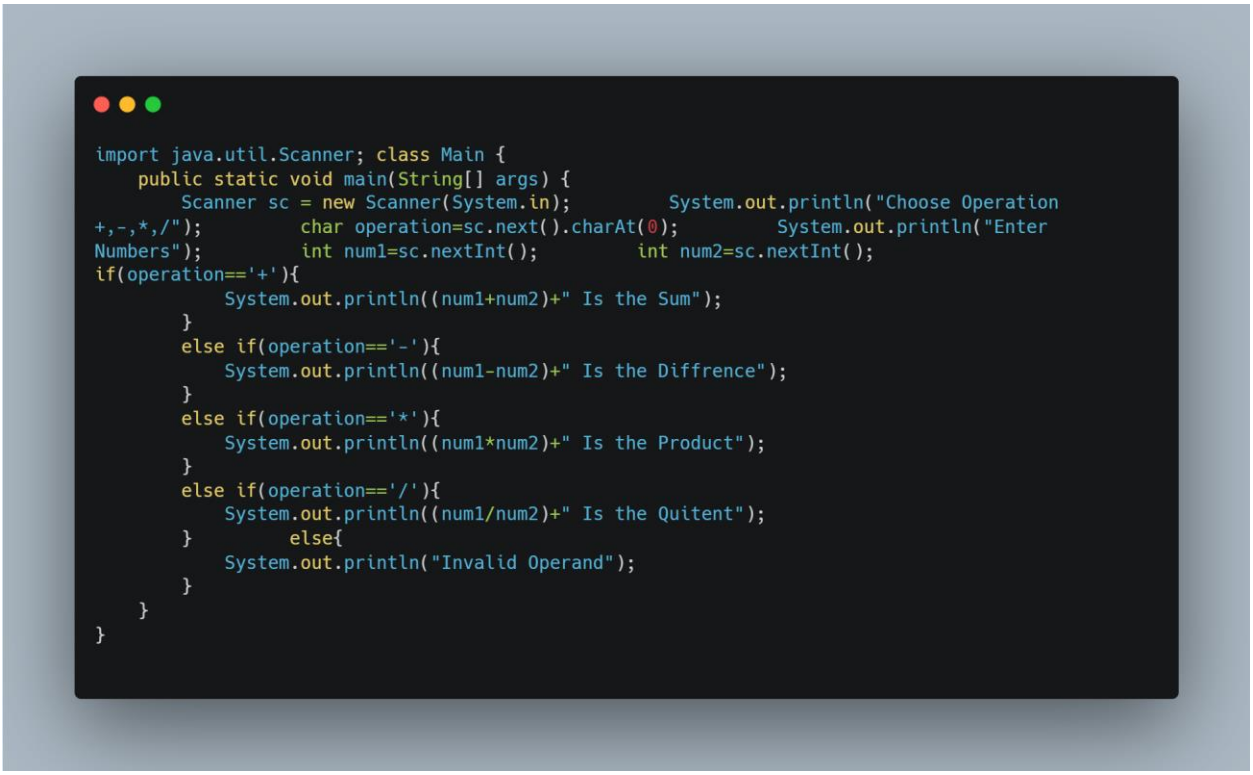
```java
package javaapplication1;

import java.util.Scanner;

class q {
    public static void main(String[] args) {

        Scanner x = new Scanner(System.in);

        System.out.println("Enter Quiz marks:");
        int quiz = x.nextInt();

        System.out.println("Enter Assignment marks:");
        int assign = x.nextInt();

        System.out.println("Enter Mid-term marks:");
        int mid = x.nextInt();

        System.out.println("Enter Final marks:");
        int finalExam = x.nextInt();

        int total = quiz + assign + mid + finalExam;
        System.out.println("Total marks = " + total);

        float average = total / 4.0f;
        System.out.println("Average = " + average);

        // Grading logic
        if (total >= 85) {
            System.out.println("A Grade");
        } else if (total >= 80) {
            System.out.println("A- Grade");
        } else if (total >= 75) {
            System.out.println("B+ Grade");
        } else if (total >= 71) {
            System.out.println("B Grade");
        } else if (total >= 68) {
            System.out.println("B- Grade");
        } else if (total >= 64) {
            System.out.println("C+ Grade");
        } else if (total >= 61) {
            System.out.println("C Grade");
        } else if (total >= 58) {
            System.out.println("C- Grade");
        } else if (total >= 54) {
            System.out.println("D+ Grade");
        } else if (total >= 50) {
            System.out.println("D Grade");
        } else {
            System.out.println("F Grade");
        }

        x.close();
    }
}
```

:

Q NO 2:

```java
package javaapplication1;

import java.util.Scanner;

class y {
    public static void main(String[] args) {

        Scanner y = new Scanner(System.in);
        System.out.println("Welcome to Pizza Shop");
        System.out.println("Enter pizza size:");
        System.out.println("1. Small");
        System.out.println("2. Medium");
        System.out.println("3. Large");

        String size = y.nextLine().trim(); // Read size input
        int price = 0;
        String pepperoni;
        String cheese;

        switch (size.toLowerCase()) {
            case "small":
                price = 100;
                System.out.println("Do you want pepperoni? (yes/no)");
                pepperoni = y.nextLine();
                if (pepperoni.equalsIgnoreCase("yes")) {
                    price += 30;
                }

                System.out.println("Do you want extra cheese? (yes/no)");
                cheese = y.nextLine();
                if (cheese.equalsIgnoreCase("yes")) {
                    price += 20;
                }
                break;

            case "medium":
                price = 200;
                System.out.println("Do you want pepperoni? (yes/no)");
                pepperoni = y.nextLine();
                if (pepperoni.equalsIgnoreCase("yes")) {
                    price += 50;
                }

                System.out.println("Do you want extra cheese? (yes/no)");
                cheese = y.nextLine();
                if (cheese.equalsIgnoreCase("yes")) {
                    price += 20;
                }
                break;

            case "large":
                price = 300;
                System.out.println("Do you want pepperoni? (yes/no)");
                pepperoni = y.nextLine();
                if (pepperoni.equalsIgnoreCase("yes")) {
                    price += 50;
                }

                System.out.println("Do you want extra cheese? (yes/no)");
                cheese = y.nextLine();
                if (cheese.equalsIgnoreCase("yes")) {
                    price += 20;
                }
                break;

            default:
                System.out.println("Invalid size entered. Please restart and enter Small, Medium, or
Large.");
                y.close();
                return;
        }

        System.out.println("Your bill: " + price + " PKR");
        y.close();
    }
}
```

Q NO 3



```
import java.util.Scanner; class Main {
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);         System.out.println("Choose Operation
+,-,*,/");         char operation=sc.next().charAt(0);         System.out.println("Enter
Numbers");         int num1=sc.nextInt();         int num2=sc.nextInt();
if(operation=='+'){
            System.out.println((num1+num2)+" Is the Sum");
        }
        else if(operation=='-'){
            System.out.println((num1-num2)+" Is the Diffrence");
        }
        else if(operation=='*'){
            System.out.println((num1*num2)+" Is the Product");
        }
        else if(operation=='/'){
            System.out.println((num1/num2)+" Is the Quitent");
        }         else{
            System.out.println("Invalid Operand");
        }
    }
}
```

Q NO 4

```java
import java.util.Scanner; class Main {
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        System.out.println("Welcome To Grade Calculator");         System.out.println("Enter Quiz
Marks out of 15");         int quiz=sc.nextInt();
        System.out.println("Enter Assignment Marks out of 10");         int
assignment=sc.nextInt();
        System.out.println("Enter Midterm Marks out of 25");         int midterm=sc.nextInt();
        System.out.println("Enter FinalTerm Marks out of 50");         int
finalterm=sc.nextInt();         int total=quiz+assignment+midterm+finalterm;         float
average=total;
        System.out.println("Total Marks ="+ total);         System.out.println("Average="+
average);         char grade;         if(total>=85){             grade='A';
        }
        else if(total>=70){             grade='B';
        }
        else if(total>=50){              grade='C';
        }         else  {             grade='F';
        }
        System.out.println("Grade="+grade);
    }
}
```

Q NO 4:

```java
import java.util.Scanner; class Main {
    public static void main(String[] args) {         Scanner sc = new Scanner(System.in);
        System.out.println("Enter Temp In Celsius");         Float temp=sc.nextFloat();
float farhenheit=((9/5)*temp)+32;
        System.out.println(farhenheit +" Is temp in Farhenheit");
    }
}
```