PG DAC–March 2023
C-DAC THIRUVANANTHAPURAM
JAVA- LAB Assignment

1. Write a Java program to read student name, course and mark of 3 subjects from command line.

Find the average mark of the student and print a report card in the following format.

Find the grade of the student as follows

Grade will be A if Avg mark > 80 and will be B otherwise

Report Card

Student name:
Course
Avg Mark:
Grade

```
File Edit Format View Help
class ReportGrade {
public static void main(String ar[])
    {

        System.out.println("           Report Card ");
        System.out.println("Student Name: " + ar[0]);
        System.out.println("Course Name: " + ar[1]);
        System.out.println("Enter the marks of subject Maths: " + ar[2]);
        System.out.println("Enter the marks of subject Physics: " + ar[3]);
        System.out.println("Enter the marks of subject Chemistry: " + ar[4]);


        int Maths =Integer.parseInt(ar[2]);
        int Physics =Integer.parseInt(ar[3]);
        int Chemistry =Integer.parseInt(ar[4]);
        float avg = (Maths+Physics+Chemistry)/3;


            String grade;
            if (avg>80)
            {
            grade ="A";
            }
            else
            {
            grade ="B";
            }

        System.out.println("Average marks: " +avg);
        System.out.println("Grade: " + grade);

        }
}
```

```
C:\Windows\System32\cmd.exe
Microsoft Windows [Version 10.0.18363.1556]
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D:\Eclipse\Java Prog>javac report.java

D:\Eclipse\Java Prog>java ReportGrade MonikaS PGDAC 77 88 99
          Report Card
Student Name: MonikaS
Course Name: PGDAC
Enter the marks of subject Maths: 77
Enter the marks of subject Physics: 88
Enter the marks of subject Chemistry: 99
Average marks: 88.0
Grade: A

D:\Eclipse\Java Prog>java ReportGrade MonikaS PGDAC 44 33 55
          Report Card
Student Name: MonikaS
Course Name: PGDAC
Enter the marks of subject Maths: 44
Enter the marks of subject Physics: 33
Enter the marks of subject Chemistry: 55
Average marks: 44.0
Grade: B

D:\Eclipse\Java Prog>
```

2. Accept your name from user and print Hello your name.

```java
import java.io.Console;

class Name {
public static void main(String ar[]) {
Console con = System.console();

System.out.print("Name: ");
String uname = con.readLine();

System.out.print("Hello Your Name: " + uname);

}
}
```

```
C:\Windows\System32\cmd.exe
Microsoft Windows [Version 10.0.18363.1556]
(c) 2019 Microsoft Corporation. All rights reserved.

D:\Eclipse\Java Prog>javac Yourname.java

D:\Eclipse\Java Prog>java Name
Name: Monika Srivastava
Hello Your Name: Monika Srivastava
D:\Eclipse\Java Prog>
```
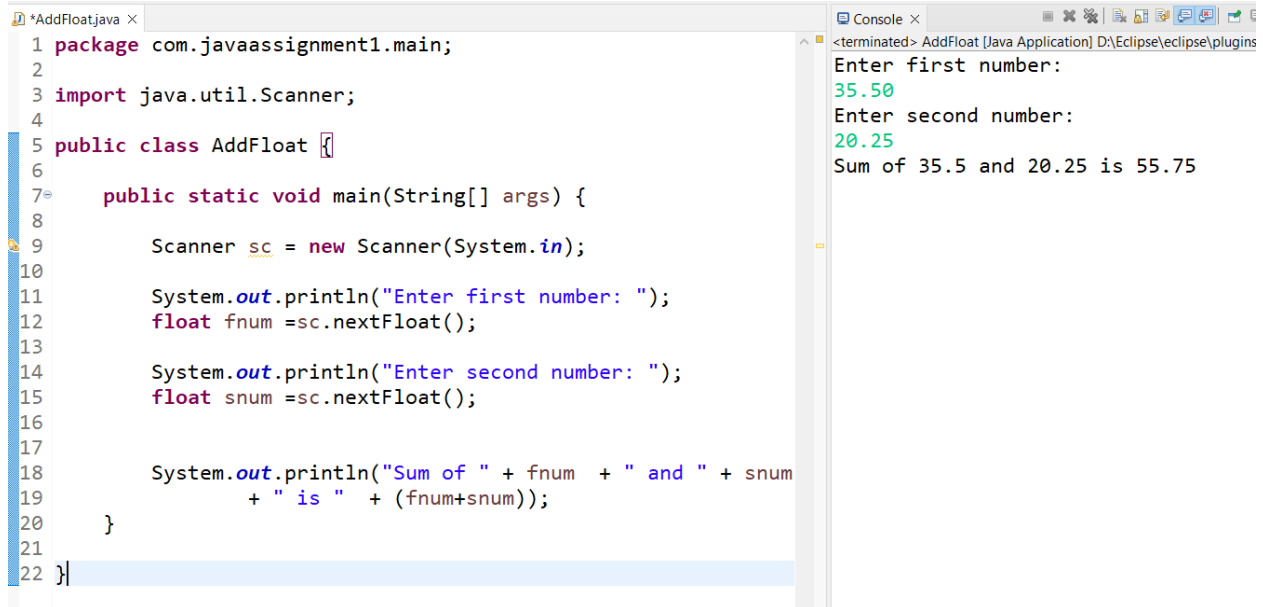
3. Accept two numbers using Scanner class.

```java
1 package com.javaassignment1.main;
2
3 import java.util.Scanner;
4
5 public class AcceptNumber {
6
7     public static void main(String[] args) {
8
9         Scanner sc = new Scanner(System.in);
10
11         System.out.print("Accept first number: ");
12         int num1 =sc.nextInt();
13
14         System.out.print("Accept second number: ");
15         int num2 =sc.nextInt();
16
17
18         System.out.println("Your first number is:" + num1);
19         System.out.println("Your first number is:" + num2);
20     }
21
22 }
23
```

```
Console ×
<terminated> AcceptNumber [Java Application] D:\Eclipse\eclipse\p
Accept first number: 56
Accept second number: 62
Your first number is:56
Your first number is:62
```

4 Write a java program to find sum of two floating point numbers using Scanner class.

```java
1 package com.javaassignment1.main;
2
3 import java.util.Scanner;
4
5 public class AddFloat {
6
7     public static void main(String[] args) {
8
9         Scanner sc = new Scanner(System.in);
10
11         System.out.println("Enter first number: ");
12         float fnum =sc.nextFloat();
13
14         System.out.println("Enter second number: ");
15         float snum =sc.nextFloat();
16
17
18         System.out.println("Sum of " + fnum  + " and " + snum
19                 + " is "  + (fnum+snum));
20     }
21
22 }
```
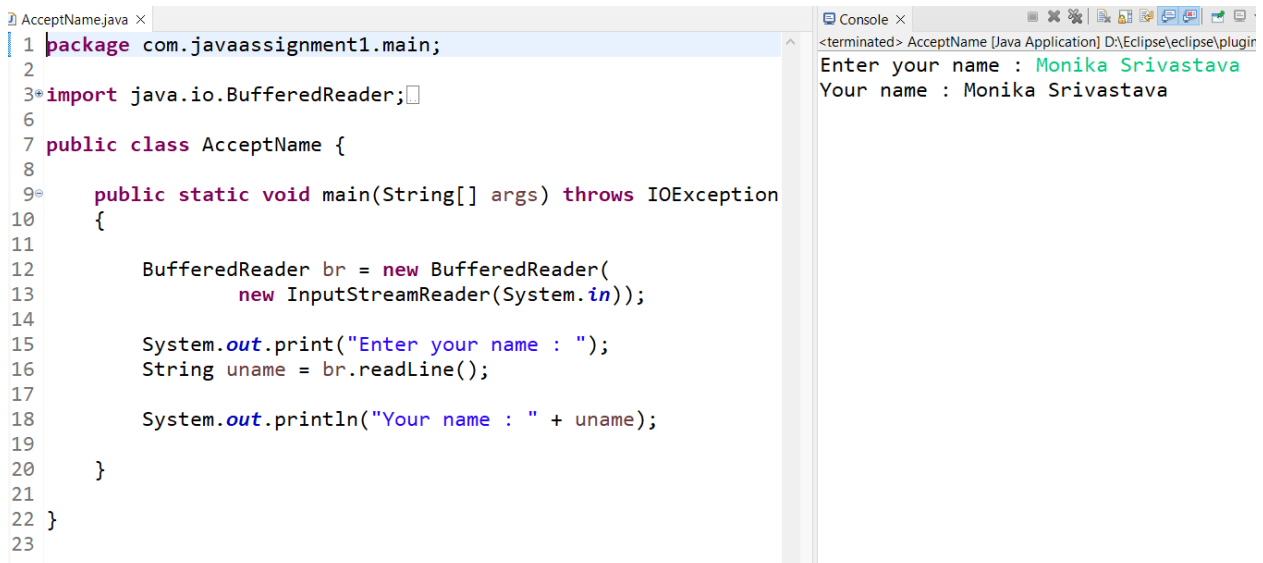
```
Console ×
<terminated> AddFloat [Java Application] D:\Eclipse\eclipse\plugins
Enter first number:
35.50
Enter second number:
20.25
Sum of 35.5 and 20.25 is 55.75
```

5 Write a java program to print your name accept input using buffer reader.

```java
1 package com.javaassignment1.main;
2
3 import java.io.BufferedReader;
6
7 public class AcceptName {
8
9     public static void main(String[] args) throws IOException
10     {
11
12         BufferedReader br = new BufferedReader(
13                 new InputStreamReader(System.in));
14
15         System.out.print("Enter your name : ");
16         String uname = br.readLine();
17
18         System.out.println("Your name : " + uname);
19
20     }
21
22 }
23
```
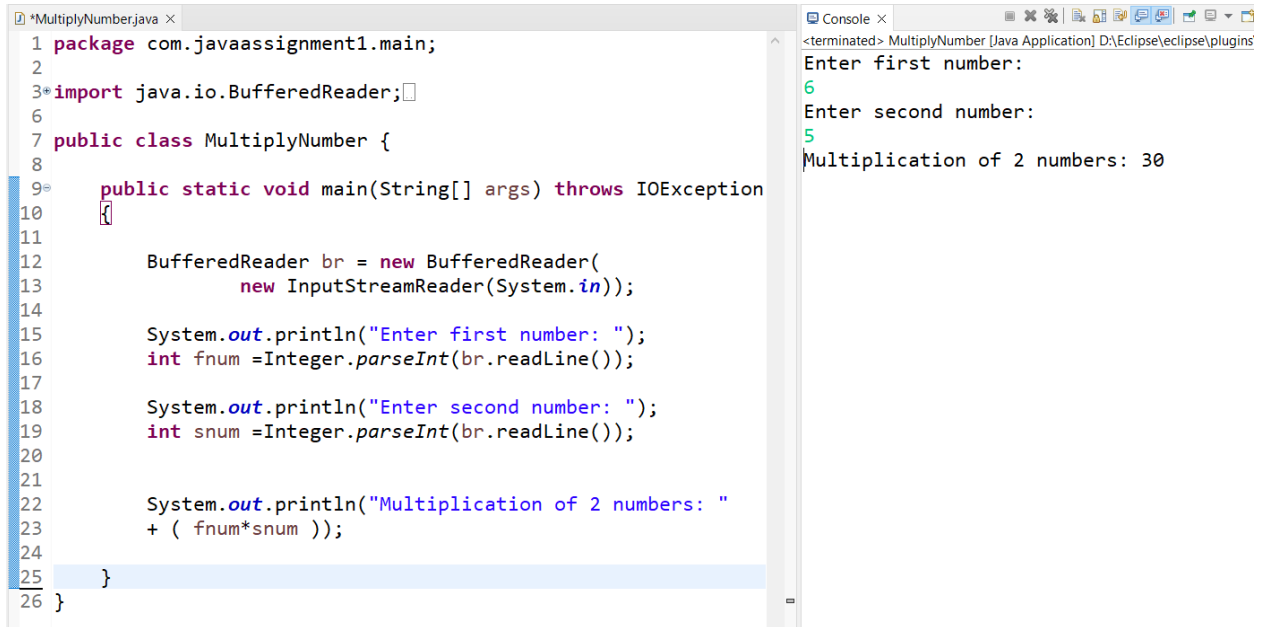
```
Console ×
<terminated> AcceptName [Java Application] D:\Eclipse\eclipse\plugin
Enter your name : Monika Srivastava
Your name : Monika Srivastava
```

6 Write a java program to multiplication of two numbers accept from buffer reader.

```java
package com.javaassignment1.main;

import java.io.BufferedReader;

public class MultiplyNumber {

    public static void main(String[] args) throws IOException
    {

        BufferedReader br = new BufferedReader(
                new InputStreamReader(System.in));

        System.out.println("Enter first number: ");
        int fnum =Integer.parseInt(br.readLine());

        System.out.println("Enter second number: ");
        int snum =Integer.parseInt(br.readLine());


        System.out.println("Multiplication of 2 numbers: "
        + ( fnum*snum ));

    }
}
```

Console output:

```
Enter first number:
6
Enter second number:
5
Multiplication of 2 numbers: 30
```