MTS 3033 Object Oriented Programming

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Group: <u>GROUP</u> *(A)*

Assignment #1

Instruction: written and paste your print screen on this worksheet.

A. Identify **class**, **variables** and **method(s)** for the following system: (**20 marks; 5 marks each**)

1. CGPA Calculation System

    Class = `CgpaCalculation`
    Variable = `string, double`
    Method = `calcAverage`

2. House Renting System

    Class = `HouseRenting`
    Variable = `String, Rental`
    Method = `RentInput`

3. Student Registration System

    Class = `StudentRegistration`
    Variable = `String name, matric_Id, etc`
    Method = `studInput`

4. Bus ticketing System

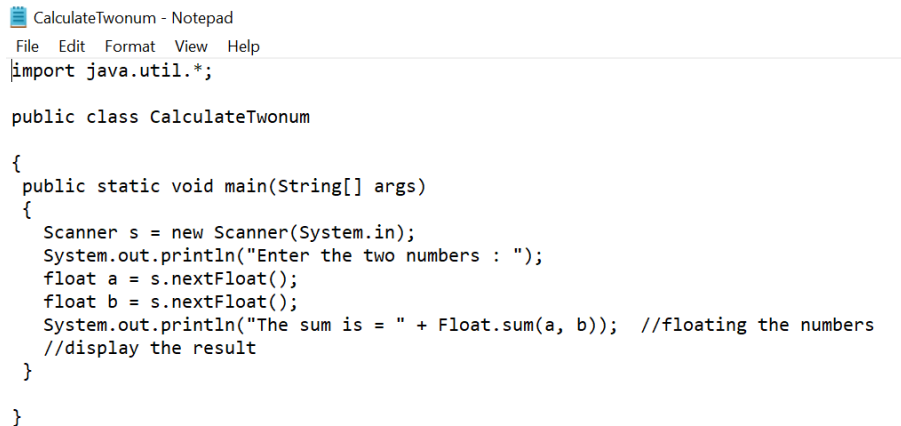   **Class** = `BusTicket`
    Variable = `int, double`
    Method = `Multiply`

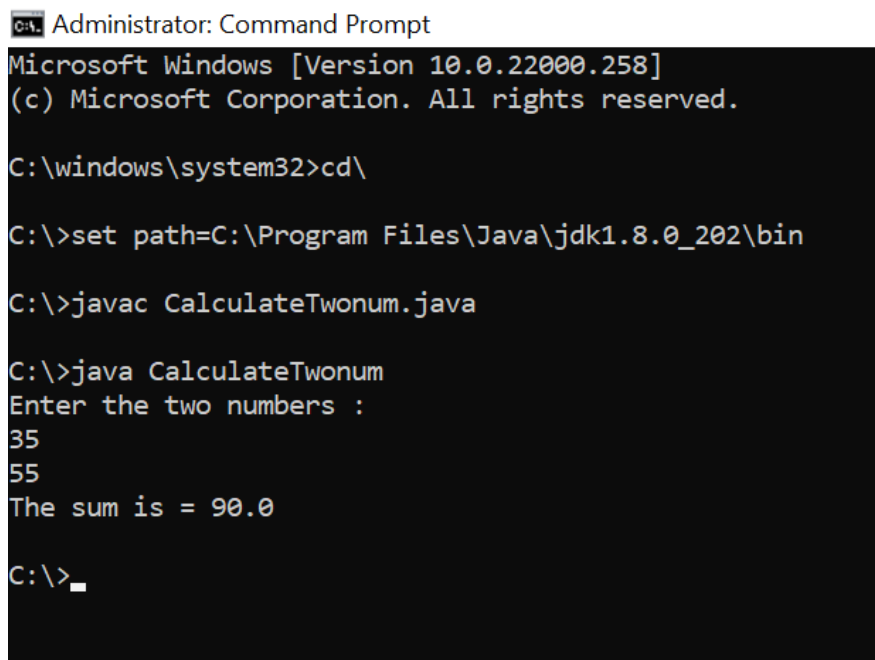**B.** Create following Java program using **Notepad** and compile it through **Command Prompt**.
(15 marks; 5 marks each)

1. Calculate addition of two float numbers. Numbers are input using keyboard and display as output.

CalculateTwonum - Notepad

File Edit Format View Help

```java
import java.util.*;

public class CalculateTwonum

{
 public static void main(String[] args)
 {
   Scanner s = new Scanner(System.in);
   System.out.println("Enter the two numbers : ");
   float a = s.nextFloat();
   float b = s.nextFloat();
   System.out.println("The sum is = " + Float.sum(a, b));  //floating the numbers
   //display the result
 }

}
```

Administrator: Command Prompt

```
Microsoft Windows [Version 10.0.22000.258]
(c) Microsoft Corporation. All rights reserved.

C:\windows\system32>cd\

C:\>set path=C:\Program Files\Java\jdk1.8.0_202\bin

C:\>javac CalculateTwonum.java

C:\>java CalculateTwonum
Enter the two numbers :
35
55
The sum is = 90.0

C:\>_
```

2. Assign and multiply these three numbers: 2,3,4. Output the result.

MultiplyThreenum - Notepad

File   Edit   Format   View   Help

```
import java.util.*;

public class MultiplyThreenum

{
 public static void main(String[] args)
 {
    int num1=2, num2=3, num3=4, number;    //variable declaration
    number=num1*num2*num3;   //multiplication of numbers
    System.out.println("The sum of the three numbers is: "+number);
    //display the result
 }

}
```

Administrator: Command Prompt

```
Microsoft Windows [Version 10.0.22000.258]
(c) Microsoft Corporation. All rights reserved.

C:\windows\system32>cd\

C:\>set path=C:\Program Files\Java\jdk-17.0.1\bin

C:\>javac MultiplyThreenum.java

C:\>java MultiplyThreenum
The sum of the three numbers is: 24

C:\>
```

3. Register a student for Kelab Fotografi with attributes of name, matric ID, semester, phone number.

KelabFotografi - Notepad

File   Edit   Format   View   Help

```java
import java.util.*;

public class KelabFotografi

{
 public static void main(String[] args)
 {
   String name, matric_id, semester, phone_number;
   Scanner s = new Scanner(System.in);
   System.out.println("Enter your Name: ");
   name = s.nextLine();
   System.out.println();

   System.out.println("Enter your Matric ID: ");
   matric_id = s.nextLine();
   System.out.println();

   System.out.println("Enter your current Semester: ");
   semester = s.nextLine();
   System.out.println();

   System.out.println("Enter your Phone Number: ");
   phone_number = s.nextLine();
   System.out.println();

   System.out.println("Your Name is: " + name);
   System.out.println("Your Matric ID is:" + matric_id);
   System.out.println("Your Semester is: " + semester);
   System.out.println("Your Phone Number is: " + phone_number);
 }

}
```

Administrator: Command Prompt

```
Microsoft Windows [Version 10.0.22000.258]
(c) Microsoft Corporation. All rights reserved.

C:\windows\system32>cd\

C:\>set path=C:\Program Files\Java\jdk1.8.0_202\bin

C:\>javac KelabFotografi.java

C:\>java KelabFotografi
Enter your Name:
Mohd Izzul Ikhwan

Enter your Matric ID:
D20201095609

Enter your current Semester:
3

Enter your Phone Number:
0123456789

Your Name is: Mohd Izzul Ikhwan
Your Matric ID is:D20201095609
Your Semester is: 3
Your Phone Number is: 0123456789

C:\>
```