CAJD Lab - Submission 2 - 221047012

1) What is the significance of passing the string arguement in main method?

Ans: The main() method also accepts some data from the user. It accepts a group of strings, which is called a string array. It is used to hold the command line arguments in the form of string values. Here, agrs[] is the array name, and it is of String type.

```
2a)
package lab2_221047012;
import java.util.Scanner;
public class AvgNo {
        public svoid average()
        int n, count = 1;
   float xF, averageF, sumF = 0;
   Scanner sc = new Scanner(System.in);
   System.out.println("Enter the value of n");
   n = sc.nextInt();
   while (count <= n)
        {
           System.out.println("Enter the "+count+" number?");
           xF = sc.nextInt();
           sumF += xF;
           ++count;
        }
           averageF = sumF/n;
    System.out.println("The Average is"+averageF);
}
}
<u>2b)</u>
package lab2_221047012;
import java.util.Scanner;
public class calculator {
          public void calci()
            double num1, num2;
            Scanner sc = new Scanner(System.in); // Taking input from the user
            System.out.println("Enter the numbers");
            // take the inputs
            num1 = sc.nextDouble();
            num2 = sc.nextDouble();
            System.out.println("Enter the operator (+,-,*,/)");
```

```
char op = sc.next().charAt(0);
  double o = 0;
  switch (op) {
  // case to add two numbers
  case '+':
    o = num1 + num2;
    break;
  // case to subtract two numbers
  case '-':
    o = num1 - num2;
    break;
  // case to multiply two numbers
  case '*':
    o = num1 * num2;
    break;
  // case to divide two numbers
  case '/':
    o = num1 / num2;
    break;
  default:
    System.out.println("You enter wrong input");
    break;
  }
  System.out.println("The final result:");
  System.out.println();
  // print the final result
  System.out.println(num1 + " " + op + " " + num2
              + " = " + o);
}
```

}

```
import java.util.Scanner;
public class Student {
        public void student_grade()
                 double m;
                 Scanner sc = new Scanner(System.in);
            System.out.println("Enter the marks: ");
            // take the inputs
            m = sc.nextDouble();
            if (m>0 && m<=59)
              System.out.println(
                 "Student has scored F grade");
            else if (m>59 && m<=69) {
              System.out.println(
                 "Student has scored D");
            else if (m>69 && m<=79) {
              System.out.println(
                 "Student has scored C");
           else if (m>79 && m<=89) {
              System.out.println(
                 "Student has scored B");
            else if (m>89 && m<=100) {
              System.out.println(
                 "Student has scored A");
            }
            else {
              System.out.println(
                 "The mark you entered is not valid!");
       }
Main method:
package lab2_221047012;
import java.util.Scanner;
public class main {
        public static void main(String[] args)
               int n;
                Scanner s= new Scanner(System.in);
               System.out.println("Enter \n1.AvgNo\n2.calculator\n3.Student\n4.Exit");
               n= s.nextInt();
```

```
switch(n) {
      case 1:
             AvgNo a= new AvgNo();
             a.average();
             break;
      case 2:
             calculator b= new calculator();
             b.calci();
             break;
      case 3:
             Student c= new Student();
             c.student_grade();
             break;
      case 4:
             System.exit(0);
             break;
      default:
             System.out.println("Invalid");
      }
}
```

}

```
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 > A JRE System Library [JavaSE-18]
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                                                                                                     4 public class main {
5⊖ public static void main(String[] args)
         ✓ ∰ lab2_221047012
        | labz_22104/012
| AvgNo.java
| calculator.java
| main.java
| Student.java
| module-info.java
                                                                                                                     blic static vol.
{
  int n;
  Scanner s= new Scanner(System.in);
  System.out.println("Enter \n1.AvgNo\n2.calculator\n3.Student\n4.Exit");
  n= s.nextInt();
                                                                                                                        n= s.nextInt();
switch(n) {
    case 1:
        AvgNo a= new AvgNo();
        a.average();
        break;
    case 2:
        calculator b= new calculator();
        b.calci();
        break;
    case 3:
        Student c= new Student();
        c.student_grade();
        break;
    case 4:
        System.exit(0);
        break;
    default:
        Contain out noistle("Touslid").
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                                                                                                Enter
1.AvgNo
2.calculator
3.Student
4.Exit
                                                                                                 Enter the marks:
                                                                                                 Student has scored B
```