2021 MCA MCAN-293 L - OBJECT ORIENTED PROGRAMMING WITH JAVA LAB

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Assignment 1
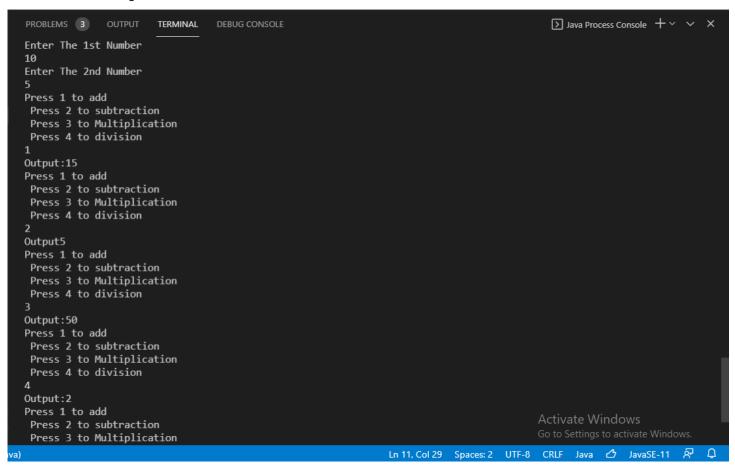
Java basics

- WAP in Java to create a menu driven various arithmatic operations.

```
1.   import java.util.Scanner;
2.   public class Calculator
3.   {
4.       public static void main(String[] args)
5.       {
6.           int num1=0, num2=0, ch=0,num=0;
7.           Scanner Sc = new Scanner(System.in);
8.           System.out.println("Enter The 1st Number");
9.           num1 = Sc.nextInt();
10.          System.out.println("Enter The 2nd Number");
11.          num2 = Sc.nextInt();
12.          while(true)
13.          {
14.              System.out.println("Press 1 to add\n Press 2 to subtraction
     \n Press 3 to Multiplication\n Press 4 to division");
15.              ch = Sc.nextInt();
16.              switch (ch)
17.              {
18.                  case 1:
19.                    num=num1+num2;
20.                    System.out.println("Output:"+num);
21.                    break;
22.                  case 2:
23.                  num=num1-num2;
24.                    System.out.println("Output"+ num);
25.                    break;
26.                  case 3:
27.                  num=num1*num2;
28.                    System.out.println("Output:"+num);
```

```
29.                    break;
30.                case 4:
31.               num=num1/num2;
32.                  System.out.println("Output:"+num);
33.                  break;
34.            }
35.         }
36.
37.      }
38.   }
39.
```

Output

```
PROBLEMS  3    OUTPUT    TERMINAL    DEBUG CONSOLE                    Java Process Console  + v  v  x

Enter The 1st Number
10
Enter The 2nd Number
5
Press 1 to add
 Press 2 to subtraction
 Press 3 to Multiplication
 Press 4 to division
1
Output:15
Press 1 to add
 Press 2 to subtraction
 Press 3 to Multiplication
 Press 4 to division
2
Output5
Press 1 to add
 Press 2 to subtraction
 Press 3 to Multiplication
 Press 4 to division
3
Output:50
Press 1 to add
 Press 2 to subtraction
 Press 3 to Multiplication
 Press 4 to division
4
Output:2
Press 1 to add
 Press 2 to subtraction
 Press 3 to Multiplication
```

```
va)                                    Ln 11, Col 29   Spaces: 2   UTF-8   CRLF   Java     JavaSE-11   R  Q
```

- WAP in Java to check whether a given marks is belonging to which grade. Where 0-39: F, 40-49: D, 50-59: C, 60-69: B, 70-79: A, 80-89: E and 90-100: O.

```java
1.    import java.util.Scanner;
2.    public class Grade {
3.        public static void main(String[] args){
4.            Scanner Sc = new Scanner(System.in);
5.            System.out.println("***WELCOME TO MAKAUT SGPA TO GRADE CONVERTE
      R***");
6.            Float num;
7.            System.out.println("Enter The SGPA Score");
8.            num = Sc.nextFloat();
9.            System.out.println("CONVERTER SGPA INTO GRADE...");
10.           if(num>10)
11.           {
12.               System.out.println("Beyond Range");
13.           }
14.           else if(num>9){
15.               System.out.println("Your grade is O");
16.           }
17.           else if(num>8)
18.           {
19.               System.out.println("Your grade is A");
20.           }
21.           else if(num>7)
22.           {
23.               System.out.println("Your grade is B");
24.           }
25.           else if(num>6)
26.           {
27.               System.out.println("Your grade is C");
28.           }
29.           else if(num>5)
30.           {
31.               System.out.println("Your grade is D");
32.           }
33.           else
34.           {
35.               System.out.println("Sorry to say but you Failed...\n Prepar
      e for the backlog :(");
36.           }
37.           System.out.println("Thank you Come again... :)");
38.       }
39.   }
40.
```

```
***WELCOME TO MAKAUT SGPA TO GRADE CONVERTER***
Enter The SGPA Score
9.84
CONVERTER SGPA INTO GRADE...
Your grade is O
Thank you Come again... :)
PS F:\classes mca\second sem\Java>
```