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SRN: PES2UG19CS451 **Subject**: OOAD

Semester: 6 Section: G

Assignment 1

• Write a program to calculate area of a circle.

Calculate the slope and intercept of a line y=mx+c, slope m=y2-y1/x2-x1, intercept c=y-mx

Find the greatest of 3 numbers (use if elseif else)

```
10/**
4 package learning;
5 import java.util.Scanner;
 <u>a</u> 9
<u>11</u>
 12
13
                 System.out.print("Enter the second number = ");
Scanner sn2 = new Scanner(System.in);
int num2 = sn2.nextInt();
<u>0</u>15
 17^{-1}
                 System.out.print("Enter the third number = ");
Scanner sn3 = new Scanner(System.in);
 18
19
 20
21
22
23
24
25
26
27
28
29
30
                  int num3 = sn3.nextInt();
                  if( num1 >= num2 && num1 >= num3)
                        System.out.println(num1+" is the largest Number");
                  else if (num2 >= num1 && num2 >= num3)
    System.out.println(num2+" is the largest Number");
                        System.out.println(num3+" is the largest Number");
            }
 31
 32 ]
33
🗏 Console 🗙 🙍 Tasks 🔳 Properties 🔐 Problems
<terminated> greaterofthreenums [Java Application] C:\Program Files\Java\jdk\bin\javaw.exe (20-Jan-2022, 3:46:38 pm – 3:46:4
Enter the first number = 5
Enter the second number = 2
Enter the third number = 6
6 is the largest Number
```

 Print the grade of a student using switch case/ arithmetic operations (+,-,*,/)

```
🛺 Grade.java 🗙
  1 package learning;
2 import java.util.Scanner;
3 public class Grade {
  5●
          public static void main(String[] args) [
ā
               // TODO Auto-generated method stub
               System. out.print("Enter the marks = Scanner sn1 = new Scanner (System. in);
<u>a</u>
               int marks = sn1.nextInt();
 10
               String grade = null;
               switch(marks/10) {
 11
 12
 13
 14
 15
                   grade = "S":
 16
                    break;
               case 8:
 17
                   grade = "A":
 18
               break;
case 7:
 19
 20
                   grade = "B";
 21
 22
23
24
25
26
27
                   break;
                   grade = "c";
                   break;
               case 5:
                    grade = "D";
               break;
case 4:
 29
                     grade = "E";
 30
               break;
default:
 31
 32
                    grade = "F";
 33
 34
                   break;
 35
             }
 36
               System.out.println("Grade = " + grade);
          }
 38 }
```

```
□ Console × ② Tasks □ Properties 및 Problems

<terminated > Grade [Java Application] C:\Program Files\Java\jdk\bi

Enter the marks = 65

Grade = C
```

• find the sum of first 5 nos using while, do while and for loop

```
package learning;
import java.util.Scanner;
    public class sumoffivenums {
   public static void main(String[] args) {
      // TODO Auto-generated method stub
      System.out.print("Enter n = ");
      Scanner sn1 = new Scanner(System.in);
      int n = sn1.nextInt();
ā
                             int sum1 = 0;
int sum2 = 0;
int sum3 = 0;
int j = 1;
int k = 0;
for(int i=1;i<=n;++i) {
    sum1 += i;</pre>
  11
  12
13
  14
  15
  17
                            mhile (j<=n) {
    sum2 += j;</pre>
  18
 20
21
22
23
24
25
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27
28
29
30
                                        j++;
                                        sum3 += k;
                              k++;
}while(k<=n);</pre>
                             System. out.println("Sum after using for loop = "+sum1);
System. out.println("Sum after using while loop = "+sum2);
System. out.println("Sum after using do while loop = "+sum3);
                    }
  31 }
🗏 Console 🗴 🚈 Tasks 🔳 Properties 🔐 Problems
<terminated> sumoffivenums [Java Application] C:\Program Files\Java\jdk\bin\javaw.exe (20-Jan-2022, 5:26:30 pm – 5:26:33 pm)
Enter n = 8
Sum after using for loop = 36
Sum after using while loop = 36
Sum after using do while loop = 36
```