



ADNAN MENDERES UNIVERSITY

CSE 203 Object-Oriented Programming

Lab 01

- Download / Install Eclipse.
- You should submit **ONLY solutions of Homework**. Submit **whole java project file in zipped format** and named project file as *NameSurname_studentNo_Lab1*
- Do your homework in **ECLIPSE IDE**.
- Do not use Turkish Characters(ç,ğ,ı,ö,ş,ü) for naming project, methods, classes.
- **Late submissions are not allowed. SEND ON TIME**
- You should do homework **YOURSELF**. Group working is not allowed.
- **Copy/same/similar homeworks will be evaluated as 0.**
- **DO NOT upload a screenshot or something else.**
- Use Google Classroom for your questions.

HOMEWORK

- 1- Print following triangle figures using loops, System.out.print() and System.out.println() functions according to user's input between 1 and 50. Note that, **single space “ ”** is printed after two digit numbers and **double space “ ”** is printed after one digit numbers to provide proper triangle shape. Program continues to ask user input until user pressed “q”.

Sample run:

Enter the number of lines: 6

```
1
 2 1 2
 3 2 1 2 3
4 3 2 1 2 3 4
5 4 3 2 1 2 3 4 5
6 5 4 3 2 1 2 3 4 5 6
```

Enter the number of lines: 10

```
1
 2 1 2
 3 2 1 2 3
 4 3 2 1 2 3 4
 5 4 3 2 1 2 3 4 5
 6 5 4 3 2 1 2 3 4 5 6
 7 6 5 4 3 2 1 2 3 4 5 6 7
 8 7 6 5 4 3 2 1 2 3 4 5 6 7 8
 9 8 7 6 5 4 3 2 1 2 3 4 5 6 7 8 9
10 9 8 7 6 5 4 3 2 1 2 3 4 5 6 7 8 9 10
```

Enter the number of lines: q

Program Terminates



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2- Calculate the **first 200 terms of pi number** using given formula. Print 6 decimal after comma for each term (You may format output using printf()).

$$\pi = 4 - \frac{4}{3} + \frac{4}{5} - \frac{4}{7} + \frac{4}{9} - \frac{4}{11} + \dots$$

Term	Pi
1	4,000000
2	2,666667
3	3,466667
4	2,895238
5	3,339683
6	2,976046
7	3,283738
8	3,017072
9	3,252366
10	3,041840
...	...
200	...