

Objective-C Programming (40 hours/2 weeks)

Activity 1

Due: 6:30pm, Wednesday, September 28st, 2018

Requirements

- You need to code this project in 3 languages:
 - o Swift
 - o Objective-C
 - o Java

Problem

- There is a class called PatternProvider which can print different patterns using a character based on the information it receives from another class called ServiceRequester.
- Pattern can do 2 patterns of drawing:

Pattern 1

```
*****
*****
*****
****
***
**
*
```

Pattern 2

```
*
**
***
****
*****
*****
*****
```

The PatternProvider requires the following information to do the job:

- The character to use for the pattern (in above example the character is *)
- The number of lines (in above example the number of line is 7)
- The pattern (pattern1 is called Triangle and the pattern2 is called ReversedTriangle)



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The PatternProvider can make some custom drawing if it has the following information otherwise it will use its own defaults:

- The number of space between the two character. The default is zero but it could be 0 or 1 or 2.
- The number of empty line between each two lines. The default is zero but it could be 0 or 1.

The ServiceRequester class is interested in the services provided by the PatternProvider and therefore should provide the information needed by the PatternProvider in order to have a drawing.

Write three applications in Swift, Objective-C and Java to implement the above problem and show how it works using an example.

