

Chongqing University of Technology

Project for Extra Off-class (2 credits)

Object Oriented Programming

Teacher - Henry

1. Write Java code to:

- Create Shape Class which contain method double getArea(), and method double getPerimeter() that both method return 0.0
- Create Circle Class inherit Shape Class which contain data member radius, constructors and methods(setter, getter, and other needed methods) , then override method getArea() and getPerimeter().
- Create Rectangle Class inherit Shape Class which contain data members (width, height) and need constructors and methods, and override method getArea() and getPerimeter().
- Create RightTriangle Class inherit Shape Class which contain data members (width, height) and need constructors and methods, and override method getArea() and getPerimeter().
- Create Main Class which contain method main then create a few objects from classes that created above then print all objects(information of object) and call methods getArea() and getPerimeter().

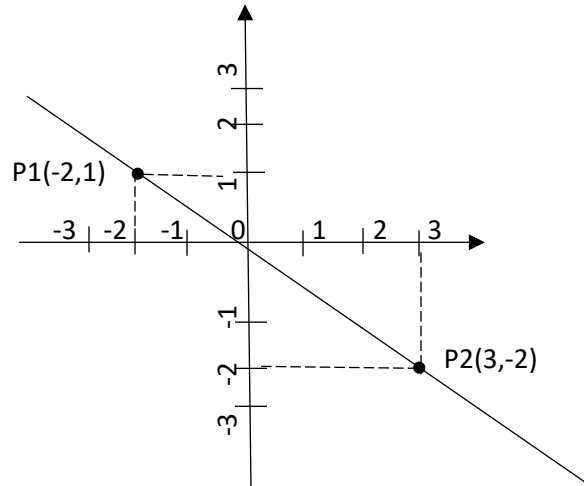
2. Write Java code to:

- 0 – Sunday; 1 – Monday; 2- Tuesday; 3- Wednesday; 4 – Thursday; 5 – Friday; 7 – Saturday;
- If user enters 1, then our start date is Monday. If user enters 3 for the number of the days in the future, then the future date is Thursday.
- (Current date) + (Days into the future) = (Future date)
 $1+3 = 4$
4 = Thursday
- What is the user enters 5 as the current date and then enters 10 for the numbers of the days into the future? what will the future date be?

3. Write a Java program to create classes as the following:

- Class Point which contain data member int x, int y and member method getter & setter and needed constructors.
- Class Line which has data member Point p1, Point p2 and member method getter & setter and needed constructors.
- Class Main contain main method then create 2 Line objects then print the coordinate.

📊 Graph:



**** NOTICE ****

- Complete any two Projects.
- Use comment almost every line of code.
- your code will have in one project named **“Projects”**, make it zip and send it to akabillah4420@gmail.com don't forget to write the Student ID and subject name **“PROJECT”** in the mail.
- be sincere to obey all of the rules otherwise maybe you will get LOW SCORE.

Deadline: 25 May 12:00 am BD time and 2:00 pm china time.

__Happy Coding__