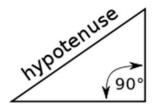
King Saud University	
College of Computer and Information Sciences	
Computer Science Department	
CSC 111	First Semester 1440-1441
Introduction to Programming with Java	

Self-check

Q1) Write method is Hypotenuse that takes 3 numbers and return true if the first number is hypotenuse and false if it is not. Your method should work for both integer and double numbers. Write Java program to test your methods. (Hint: the square of the length of the hypotenuse equals the sum of the squares of the lengths of the other two sides).



Q2) Write body of method substitute1 that can substitute the first occurrence of char with another char and another method substitute2 that replace the first occurrence of String with another String, then return updated String. Your methods should take String to replace its char/String with another char/String. Write Java program to test your

```
public class SelfCheck{
   ■ public static void main(String args[]){
   //02.
   public static void menu() {
   public static String Substitute1(String str, char ch1, char ch2) {
   public static String Substitute2(String str, String s1 , String s2) {
```

Q3) Write a program that prompts the user to input the x-y coordinate of a point in a Cartesian plane, The program calls a method checkPoin that output a message indicating whether the point is the origin, is located on the x-axis, is located on the y-axis, or appears in a particular quadrant.

For example:

- (0,0) is the origin
- (4,0) is on the x-axis
- (0,-3) is on the y-axis
- (-2,3) is on the second quadrant

```
public static void main (String [] args) {
//Q3.
    - System.out.println("Origin");
   — System.out.println("Fourth quadrant");
```