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

Tutorial 9

Q1 .) What is the value of x after each of the following statements is executed

a) x = Math.floor(-3.5); -4.0

b) x = Math.ceil(-4.8); -4.0

c) x =(-Math.abs(-3 + Math.round(3.5))); -1

d) x = Math.pow(Math.sqrt(25),2); 25.0

e) x = -60+Math.floor(60.59) * 2; 60.0

Q2) Write the header of each the following methods:

a) Method named area that takes two double arguments, side1 and side2, and returns a double result.

Public static double area(double side1,double side2)

b) Method named readMe that does not receive any arguments and does not return a value.

Public static void readMe()

Q3) Write a method named printSign that recieves int value and prints the appropriate sign (print '+' if it is positive, '-' if it is negative, nothing if zero

```
public static char printSign(int num){
    char m = ' ';
    if (num > 0)
        m = '+';
    if (num < 0)
        m = '-';
    if (num == 0)
        m = ' ';
    return m;
}
```

Q4) The modular program declares and initializes a string variable. It prints the returned string after calling the method replacedDigit.
The method replacedDigit receives a string and replaces each digit in the string by #. Then, it returns the new string.

```
public class replceDigit{
public static void main (   String [] args ){
 String s = "it is 20th of Nov 2019";
String str=     replacedDigit(s)   // calling method
System.out.println(str);
}
public static String replacedDigit(String s){  // header of method
 for (int i = 0; i<s.length(); i++)
 {
  if (Character.isDigit(str.charAt(i))  // condition
   s =  s.replace(s.charAt(i),'#') ;
   }
   return s ;  //return statement
   } }
```