King Saud University	
College of Computer and Information Sciences	
Computer Science Department	
CSC 111	**Second Semester**
Introduction to Programming with Java	**1442-1443**

Tutorial # 3

Input & Output + Strings

Due Date Saturday 2/2/1442 (19/9/2020) 11:59 p.m.

Q1. Find the errors in the following program by filling the table below:

```java
1 public class FindError
2 {
3    public static void main (String [] args)
4      {
5        //code segment 1
6        int result = 0, num = 1;
7        result = 2 * 3 + --num - (7 / num);
8        result =  3 + ((double)15/2);
9        System.out.println("result = ", result);
10
11       //code segment 2
12       String fullName = "Sara Ahmad";
13       String lastName = fullName.substring(fullName.charAt(" ")+1);
14     }
15 }
```

Error line	Error Type (Compilation/Runtime)	Error Explanation

Q2. The following program will be used as a locker request form in order to submit a request for a locker in the university. You should edit the program by filling the empty spaces, so the program reads the student information from the user:

```java
1 import java.util.Scanner;
2 public class RequestForm
3 {
4    public static void main (String [] args)
5     {
6      Scanner input = new Scanner (System.in);
7      System.out.println("**** Locker Request Form ****");
8      System.out.println("Enter your full name (first and second name):");
9      ............... name = .......................................................
10     System.out.println("Enter your Student ID number:");
11     int id = .......................................................
12     System.out.println("Enter your option a or b(a: New locker or b:
Renew locker):");
13      char requestType = .......................................................
14     System.out.println("Enter the amount of deposit:");
15     double deposit = .......................................................
16    }
17 }
```

Q3. What output is produced by each of the following statements. Align the output carefully so the exact position of each output character is obvious (use ~ for space):

```java
1. char symbol = '2';
   System.out.print((int)symbol);
```

```java
2. System.out.print("\'Java\'\\nis\tFun");
```

```java
3. String s1 = "Hello Sara";
   String s2 = "hello sara";
   System.out.print(s1.equalsIgnoreCase(s2));
```

```java
4. String word1 = "Third", word2 = "Tutorial";
   String s1 = word1 + " " + word2;
   String s2 = word1.concat(word2);
   System.out.println(s1.equals(s2));
```

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Q4. Given a String *s*, write java statements to perform the following:

1. Print the String *s* after adding a backslash at the beginning and at the end of the String *s*.
2. Print the String *s* after converting the first character to uppercase.
3. Print the String *s* after removing all the periods.
4. Print the location of the second occurrence of the space character.