

King Saud University College of Computer and Information Sciences Computer Science Department	
CSC111 Introduction to Programming with Java	First Semester 1440-1441

Tutorial 4

Q1.

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

```
int num = 75;
```

```
double rate = 23.425;
```

```
System.out.printf("%s\n %5d ", "Question No:", 2);
```

```
Question No:
```

```
~~~~~2
```

```
System.out.printf("%-15s%-5d%-2.2f\n", "Tutorial 3", num, rate);
```

```
Tutorial 3~~~~~75~~~23.43
```

```
System.out.printf("num = %7d\n", num);
```

```
num =~~~~~75
```

```
System.out.printf("rate = %6.3f\n", rate);
```

```
rate = ~23.425
```

```
|
| Question No:
|           2 Tutorial 3           75    23.43
| num =           75
| rate = 23.425
```

Q2.

Write one print statement to display the following output:

```
The Rate 33.7 changed by
```

```
~~~5.000%
```

Assume you have the following Declaration:

```
double Rate = 33.666 , Percent = 5;
```

```
System.out.printf("The Rate %.1f changed by \n%8.3f%%", Rate,
Percent);
```

Output