

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

Tutorial 6
Selection Statements: if, if..else, switch, conditional oprator

Q1. What is the output produced by the following Java code segments?

<pre>int num=70; if(num < 100){ System.out.println("number is less than 100"); }</pre>	number is less than 100
<pre>int num=70; if(num < 100){ System.out.println("number is less than 100"); if(num > 50){ System.out.println("number is greater than 50"); } }</pre>	number is less than 100 number is greater than 50
<pre>int num=120; if(num < 50){ System.out.println("num is less than 50"); } else { System.out.println("num is greater than or equal 50"); }</pre>	num is greater than or equal 50

Q2. Write a Java segment that prints:

Senior Manager if the variable Salary is above or equal 15000 SR.

Junior Manager if Salary is above or equal 10000 SR.

Employee otherwise.

```
if (Salary >= 15000)
    System.out.println("senior manager");
else {
    if (salary >=10000)
        System.out.println("junior manager");
    else
        System.out.println("employee"); }
```

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//Problem solving

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Q3. Rewrite the following if...else statements using the conditional operator:

```
int time = 20;
if (time < 18) {
    System.out.println("Good day.");
} else {
    System.out.println("Good evening.");
}
```

```
String scentence = (time<18)? "good day":"good evening";
System.out.println(sentence);
```

Q4: Write a switch statement that prints the weekday name using the value of weekday number. Suppose variable input of type Scanner to read the value of weekday as an integer from the user.

```
int num = input.nextInt();
String weekday ;
switch (num) {
case 1: weekday = "sunday";
break;
case 2: weekday = "monday";
break;
case 3: weekday = "tuesday";
break;
case 4: weekday = "wednesday";
break;
case 5: weekday = "thursday";
break;
case 6: weekday = "friday";
break;
case 7: weekday = "saturday";
break;
default: weekday = "wrong day number";
break;}
```

```
System.out.printf("day number %d is a %s", num,weekday);
```

//Problem solving

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