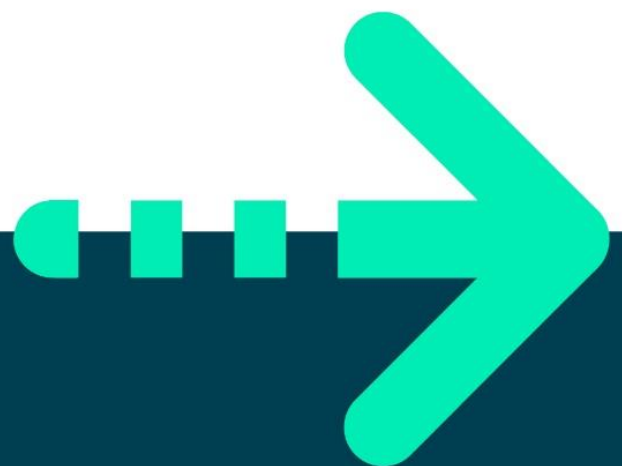




Lab 5: More Conditionals

Java Fundamentals





Lab 5: More conditionals

Objective

In this exercise you'll practise using the logical AND (&&) and OR (||) in an if statement.

Step by step

1. Back in the **labs** project which you created in **Lab1**, add a new package called lab05.

Please refer to Lab 1's instructions if you need help.

2. Create a new class called *Program* in Lab05 package with a main() method.
3. Add a class called Lab5 to this package (with no main method).
4. Transfer the code for **getInt()** which you wrote in the previous lab to the Lab5 class.
5. Create a method in Lab5 called grades as:

```
public void grades() {  
}
```

6. Create an instance of Lab5 in main() and call grades() to get ready for the rest of this exercise.

```
Lab5 lab5 = new Lab5();  
lab5.grades();
```

7. From now on, all your code will go in the grades() method.
8. Use the getInt() method to input an exam mark.
9. The rules for calculating a grade are as follows:

If the mark is less than 1 or greater than 100, display:
"Error: Marks must be between 1 - 100"

Less than **50**
between **50...60** (inclusive)
between **61...70** (inclusive)
between **71...100** (inclusive)

Fail
Pass
Merit
Distinction



Part 2 – Evening Behaviors (Optional)

In this section you'll display different recommendations depending on whether it's summertime and/or early evening.

1. Create another method method called **Part2()**.

```
public void Part2() {  
}
```

2. In the Part2() method, ask the user if it is summertime. If they answer "yes", set a Boolean variable to true.

Tip: Use the getString() method to get a String.

3. You will then ask the user to indicate if it is early evening and record this fact in another Boolean variable.

Tip: Create a Boolean variable that takes the value of **true** if the user says "yes" and will be **false** otherwise.

4. Using **if, else** statement/s, produce the following logic table in code to produce the output indicated.

Season: Summer Time	True	True	False	False
Condition: Sunny Evening	True	False	True	False
Action: Take a shower	✓	✓	✓	✓
Action: Eat outside	✓			
Action: Eat inside		✓	✓	✓
Action: Do outdoors hobby	✓	✓		
Action: Take a walk			✓	
Action: Contact friends	✓	✓	✓	✓

**** End ****

