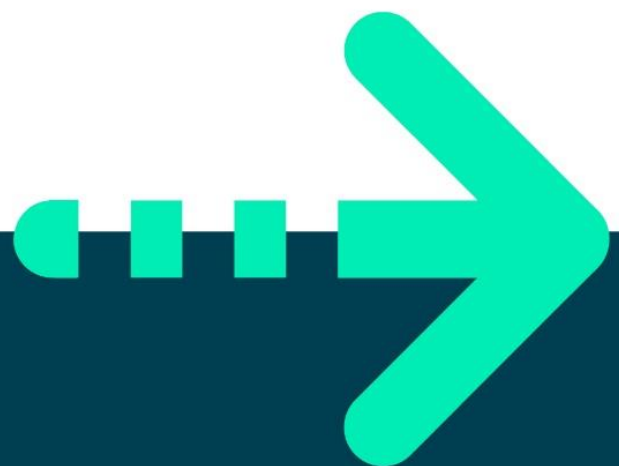




# **LAB 5, JAVA – MORE CONDITIONALS**

**JAVA FUNDAMENTALS**





## Exercise 5, Java – More conditionals

### Objective

In this exercise you'll practice 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 lab1'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 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 is as follows:

If the mark is less than 1 or greater than 100, display:  
*"Error: marks must be between 1..100"*

Less than 50		Fail
between 50..60	(inclusive)	Pass
between 61..70	(inclusive)	Merit
between 71..100	(inclusive)	Distinction



## Part 2 – Evening Behaviors (Optional)

In this part you'll display different recommendation depending on if it is Summer time 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 Summer time. If they answer "yes" then 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 bool 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 \*\*

