



Hello,  
World!

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EMT1111: Logic and Problem Solving | Fall 2016 | Dr. Mendoza

# LESSON 5: Labs

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IF ELSE STATEMENT

# if Statement

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In Python, selection is implemented using the **if** statement.

An **if** statement includes a **logical expression** which is either *true* or *false*. This is also called a **Boolean expression**. An example of a **logical expression** or **Boolean expression** is:

**x < 3**

# Lab assignment 1 (driving.py)

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```
age = 18
if age < 21:
    print("You cannot drink yet")
    print("You can't drive either")
print("Goodbye")
```

Change the program so that it will ask the user to enter his/her age

# Logical Expressions

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Expression	Logical meaning
$a < b$	True if a is less than b
$a \leq b$	True if a is less than or equal to b
$a > b$	True if a is greater than b
$a \geq b$	True if a is greater than or equal to b
$a == b$	True if a is equal to b. (Two equals signs, to distinguish it from assignment)
$a != b$	True if a is <i>not</i> equal to b.

# Lab assignment 2 (driving2.py)

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```
age = 18
if age < 21:
    print("You cannot drink yet")
    print("You can't drive either")
else:
    print("Drink responsibly")
    print("Drive responsibly")

print("Goodbye")
```

Change the program so that it will ask the user to enter his/her age

# Lab Assignment 3 (price.py)

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Write a Python program to ask the user for the price of an item. Then, depending on the price entered by the user, the program should display one of the following messages:

- "Good price!", if the price is less than 50
- "Regular price", otherwise (price is greater than or equal to 50)