

Skill 5.2 Exercise 1
Write a program that accepts two words from a user and assigns them to variables <i>word1</i> and <i>word2</i> , respectively. Write an <i>if</i> statement that compares the words. If <i>word1</i> is greater than <i>word2</i> , swap the values stored in <i>word1</i> and <i>word2</i> .

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Skill 5.2 Exercise 2

The ticket prices at a movie theater are given below.

Type of ticket	Price (in dollars)
Regular	12
Child (ages 12 and below)	9
Senior (ages 65 and above)	9

*Additional \$5 fee for 3D movie

A programmer is creating an algorithm to set the value of *ticket_price* based on the information in the table. The programmer uses the integer variable *age* for the age of the moviegoer. The Boolean variable *is3D* is true when the movie is 3D and false otherwise.

Write an algorithm that correctly sets the value of *ticket_price*.

Skill 5.3 Exercise 1

For each of the following indicate what is printed as the output. If an error occurs, indicate the error and why.

Code	Output
<pre>num = 5 if(num > 10): print("number is greater than 10") else: print("number is less than 10") print ("This statement will always be executed")</pre>	
<pre>a = 7 b = 0 if (a > b): print("a is greater than b") else: print("b is greater than a")</pre>	
<pre>a = 7 b = 0 if (a < b): print("a is smaller than b") else: print("b is smaller than a")</pre>	

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```
passing_Score = 60
my_Score = 67
if(my_Score >= passing_Score):
    print("Congratulations!")
    print("You passed!")
else:
    print("You failed!")
print("Better luck next time!")
```

```
passing_Score = 60
my_Score = 57
if(my_Score >= passing_Score):
    print("Congratulations!")
    print("You passed!")
else:
    print("You failed!")
print("Better luck next time!")
```

Skill 5.4 Exercise 1

Below is the start of a program. Write an if-else statement that checks whether someone is old enough to drive. If they are 16 or older, indicate to the user that they are old enough to drive. Otherwise, indicate to the user how long they need to wait until they can drive.

```
age = input("How old are you?")
```

Data Science with Python
Ticket Out the Door
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