conditionals_exercises_pdf

January 25, 2019

1 An Introduction to Python

1.1 Conditionals

1.2 Exercises

1.2.1 This notebook contains the programming exercises for An Introduction to Python: Conditionals.

1.3 This is the PDF version of the Jupyter Notebook, provided only for convenience. It is recommended that you download the Jupyter Notebook(.ipynb) and interactively code your answers.

2 Exercises

2.1 Do the following problems.

Write a segment of code that uses conditionals to print out the messages "Gold", "Silver" or "Bronze" according to the value of the variable x which represents the standing of an athlete at an Olympics event.

What is logically wrong with the following code?

```python
if grade >= 90:
    print("You got an A!")
if grade >= 80:
    print("You got a B!")
if grade >= 70:
    print("You got a C!")
if grade >= 60:
    print("You got a D!")
if grade >= 50:
    print("You got an F!")
```

Answer:

```python
if  i < j:
    if j < k:
        i = j
```

```python
    else:
        j = k
else:
    if j > k:
        j = i
    else:
        i = k
print("i =", i, " j =", j, " k =", k)
```

What will the code print if the variables i, j, and k have the following values?

(a) i = 3,j = 5,and k = 7

(b) i = 3,j = 7,and k = 5

(c) i = 5,j = 3,and k = 7

Answer:

What is the value of y in the following?

```python
1) x = 30
   y = "a" if x > 15 else "b"

2) x = 10
   y = "a" if x > 15 else "b" if x >=11 else "c"
```

Answer