

2026 WGU Foundations-of-Programming-Python: Efficient Foundations of Programming (Python) - E010 JIV1 Valid Test Book

9/12/25, 12:25 AM D335: Introduction to Programming in Python

WGU D335 PA: Introduction to Programming in Python
| Pre-Assessment | Questions with Verified Answers |
New 2025/2026 Update | 100% Correct.

22.1 Lab: Convert to Seconds

Write a program that reads in hours, minutes, and seconds as input, and outputs the time in seconds only.

```
22.1.1: LAB: Convert to seconds

hours = int(input())
minutes = int(input())
seconds = int(input())

total_seconds = hours * 3600 + minutes * 60 + seconds
print("Seconds:", total_seconds)
```

22.2 Lab: Convert from Seconds

People find it easier to read time in hours, minutes, and seconds rather than just seconds. Write a program that reads in seconds as input and outputs the time in hours, minutes, and seconds.

```
LAB ACTIVITY 22.2.1: LAB: Convert from seconds

1 user_num = int(input())
2
3 # Compute hours, minutes, and seconds
4 hours = user_num // 3600
5 minutes = (user_num % 3600) // 60
6 seconds = user_num % 60
7
8 # Display the result
9 print("Hours:", hours)
10 print("Minutes:", minutes)
11 print("Seconds:", seconds)
12
```

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WGU Foundations of Programming (Python) - E010 JIV1 Sample Questions (Q14-Q19):

NEW QUESTION # 14

How can the first four characters be extracted from the string ' computer ' ?

- A. ' computer ' [1:4]
- B. ' computer ' [0:4]
- C. ' computer ' [0:3]
- D. ' computer ' [1:5]

Answer: B

Explanation:

Python strings are sequences, and sequence values can be accessed using indexing and slicing.

The first character in a Python string has index 0. To extract the first four characters from ' computer ', the slice should start at index 0 and stop at index 4.

Example:

```
' computer ' [0:4]
```

Result:

```
' comp '
```

In Python slicing, the start index is included, but the stop index is excluded. So [0:4] includes characters at indexes 0, 1, 2, and 3.

The official Python documentation explains that slicing with a[start:stop] selects items from the start index up to, but not including, the stop index.

Therefore, the correct answer is A. ' computer ' [0:4].

NEW QUESTION # 15

Write a complete function calculate_discount(price, discount_percent) that calculates and returns the final price after applying a discount percentage.

For example, calculate_discount(75, 20) should return 60.0.

```
def calculate_discount(price, discount_percent):  
    # TODO: Calculate and return the final price after discount  
    pass
```

Answer:

Explanation:

See the Step by Step Solution below in Explanation.

Explanation:

Step 1: The function receives the original price and the discount_percent.

Step 2: Convert the discount percentage into a decimal by dividing by 100.

Step 3: Subtract the discount from 1 to find the remaining price percentage.

Step 4: Multiply the original price by the remaining percentage.

Correct code:

```
def calculate_discount(price, discount_percent):  
    return price * (1 - discount_percent / 100)
```

Example:

```
print(calculate_discount(75, 20))
```

Output:

```
60.0
```

NEW QUESTION # 16

A program processes file names and extracts the last 3 characters representing the file extension. For example, files ' document.pdf' and ' image.png ' would return ' pdf' and ' png ' , respectively. Which slicing approach would work for either of the provided files?

- A. filename[9:]
- B. filename[-3:]
- C. filename[:-3]
- D. filename[:9]

Answer: B

Explanation:

The slice filename[-3:] extracts the last three characters from a string.

Example:

```
filename = " document.pdf"
```

```
print(filename[-3:])
```

Output:

```
pdf
```

Another example:

```
filename = " image.png "
```

```
print(filename[-3:])
```

Output:

```
png
```

Python strings support slicing, and negative indexes count from the end of the string.

Therefore, the correct answer is C. filename[-3:] .

NEW QUESTION # 17

Which punctuation mark must appear at the end of an if statement line?

- A. . period
- B. : colon
- C. , comma
- D. ; semicolon

Answer: B

Explanation:

In Python, an if statement line must end with a colon.

Example:

```
age = 18
```

```
if age >= 18:
```

```
print( " Adult " )
```

The colon : tells Python that an indented block of code follows. That indented block contains the statements that should run when the condition is true.

A semicolon, period, or comma is not used to begin the body of an if statement in Python.

Therefore, the correct answer is B. : colon.

NEW QUESTION # 18

Which components are required in every Python for loop?

- A. A function call, a parameter, and a return value
- B. A list index, a range limit, and a step value
- C. A variable, an iterable, and an indented code block
- D. A condition, a counter, and a break statement

Answer: C

Explanation:

A Python for loop is used to iterate over an iterable object, such as a list, tuple, string, dictionary, set, or range() object.

A basic for loop needs:

A loop variable

An iterable object

An indented code block

Example:

```
for number in range(3):
```

```
    print(number)
```

In this example:

number is the loop variable.

range(3) is the iterable.

print(number) is the indented code block that runs during each loop iteration.

According to the official Python documentation, the for statement is a construct that works with iterable objects.

Therefore, the correct answer is A. A variable, an iterable, and an indented code block.

NEW QUESTION # 19

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