



98-381^{Q&As}

Introduction to Programming Using Python

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QUESTION 1

The ABC company has hired you as an intern on the coding team that creates e-commerce applications.

You must write a script that asks the user for a value. The value must be used as a whole number in a calculation, even if the user enters a decimal value.

You need to write the code to meet the requirements.

Which code segment should you use?

- A. `totalItems = input("How many items would you like?")`
- B. `totalItems = float(input("How many items would you like?"))`
- C. `totalItems = str(input("How many items would you like?"))`
- D. `totalItems = int(input("How many items would you like?"))`

Correct Answer: B

References: <http://anh.cs.luc.edu/python/hands-on/3.1/handsonHtml/io.html>

QUESTION 2

DRAG DROP

You are writing a Python program to perform arithmetic operations.

You create the following code:

```
a = 11  
b = 4
```

What is the result of each arithmetic expression? To answer, drag the appropriate expression from the column on the left to its result on the right. Each expression may be used once, more than once, or not at all.

Select and Place:



Results

```
print(a / b) print(a // b)
print(a % b)
```

Answer Area

2	<input type="text"/>
3	<input type="text"/>
2.75	<input type="text"/>

Correct Answer:

Results

```
 
```

Answer Area

2	<input type="text" value="print(a // b)"/>
3	<input type="text" value="print(a % b)"/>
2.75	<input type="text" value="print(a / b)"/>

QUESTION 3

HOTSPOT

You are writing a Python program to validate employee numbers.

The employee number must have the format ddd-dd-dddd and consist only of numbers and dashes. The program must print True if the format is correct and print False if the format is incorrect.

How should you complete the code? To answer, select the appropriate code segments in the answer area.

Hot Area:



Answer Area

```
Employee_number = ""  
Employee_number = "sentinel"
```

parts = ""

```
while employee_number != "":  
while employee_number != "sentinel":
```

```
valid = False  
valid = True
```

```
employee_number = input("Enter employee number (ddd-dd-dddd): ")  
parts = employee_number.split('-')
```

```
if len(parts) == 3:
```

```
    if len(parts[0]) == 3 and len(parts[1]) == 2 and len(parts[2]) == 4:
```

```
        if parts[0].isdigit() and parts[1].isdigit() and parts[2].isdigit():
```

```
print(valid)
```

```
valid = False  
valid = True
```

Correct Answer:



Answer Area

```
Employee_number = ""  
Employee_number = "sentinel"
```

```
parts = ""
```

```
while employee_number != "":  
while employee_number != "sentinel":
```

```
valid = False  
valid = True
```

```
employee_number = input("Enter employee number (ddd-dd-dddd): ")  
parts = employee_number.split('-')
```

```
if len(parts) == 3:
```

```
    if len(parts[0]) == 3 and len(parts[1]) == 2 and len(parts[2]) == 4:
```

```
        if parts[0].isdigit() and parts[1].isdigit() and parts[2].isdigit():
```

```
print(valid)
```

```
valid = False  
valid = True
```

QUESTION 4

You develop a Python application for your school.

You need to read and write data to a text file. If the file does not exist, it must be created. If the file has content, the content must be removed.

Which code should you use?

- A. `open("local_data", "r")`
- B. `open("local_data", "r+")`
- C. `open("local_data", "w+")`
- D. `open("local_data", "w")`



Correct Answer: C

Modes `'r+'`, `'w+'` and `'a+'` open the file for updating (reading and writing). Mode `'w+'` truncates the file.

References:

<https://docs.python.org/2/library/functions.html>

<https://pythontips.com/2014/01/15/the-open-function-explained/>

QUESTION 5

You are creating a Python program that shows a congratulation message to employees on their service anniversary.

You need to calculate the number of years of service and print a congratulatory message.

You have written the following code. Line numbers are included for reference only.

```
01 start = input("How old were you on your start date?")
02 end = input("How old are you today?")
03
```

You need to complete the program.

Which code should you use at line 03?

- A. `print("Congratulations on" + (int(end)-int(start)) + "years of service!")`
- B. `print("Congratulations on" + str(int(end)-int(start)) + "years of service!")`
- C. `print("Congratulations on" + int(end - start) + "years of service!")`
- D. `print("Congratulations on" + str(end - start) + "years of service!")`

Correct Answer: B

int must be converted to string

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