



## **Microsoft**

### **Exam Questions 98-381**

Introduction to Programming Using Python

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**NEW QUESTION 1**

**HOTSPOT**

You are developing a Python application for an online product distribution company. You need the program to iterate through a list of products and escape when a target product ID is found. How should you complete the code? To answer, select the appropriate code segments in the answer area.  
 NOTE: Each correct selection is worth one point.

**Answer Area**

```
productIdList = [0, 1, 2, 3, 4, 5, 6, 7, 8, 9]
index = 0
```

while  
for  
if  
break

```
print(productIdList[index])

if productIdList[index] == 6 :
```

else

while  
for  
if  
break

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

References: <https://www.w3resource.com/python/python-while-loop.php>

**NEW QUESTION 2**

**DRAG DROP**

Match the data type to the type operations. To answer, drag the appropriate data type to the correct type operation. Each data type may be used once, more than once, or not at all.

**Data Types**

int

float

str

bool

**Answer Area**

type (+1E10)	
type (5.0)	
type ("True")	
type (False)	

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

References: <https://www.w3resource.com/python/python-data-type.php>

**NEW QUESTION 3**

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")

Answer: B

**Explanation:**

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

**NEW QUESTION 4**

**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.

**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
```

- A. Mastered
- B. Not Mastered

Answer: A

**Explanation:**

### 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
```

### NEW QUESTION 5

You are creating a function that reads a data file and prints each line of the file. You write the following code. Line numbers are included for reference only.

```
01 import os
02 def read_file(file):
03     line = None
04     if os.path.isfile(file):
05         data = open(file, 'r')
06     while line != '':
07         line = data.readline()
08         print(line)
```

The code attempts to read the file even if the file does not exist. You need to correct the code.

Which three lines have indentation problems? Each correct answer presents part of the solution. (Choose three.)

- A. Line 01
- B. Line 02
- C. Line 03
- D. Line 04
- E. Line 05
- F. Line 06
- G. Line 07
- H. Line 08

**Answer: F**

### NEW QUESTION 6

#### HOTSPOT

You are coding a math utility by using Python. You are writing a function to compute roots.

The function must meet the following requirements:

If a is non-negative, return  $a^{1/b}$

If a is negative and even, return "Result is an imaginary number"

If a is negative and odd, return  $-(-a)^{1/b}$

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

### Answer Area

```
def safe_root(a, b):
```

```
if a >= 0:
    if a % 2 == 0:
    else:
    elif:
```

```
    answer = a**(1/b)
```

```
if a >= 0:
    if a % 2 == 0:
    else:
    elif:
```

```
if a >= 0:
    if a % 2 == 0:
    else:
    elif:
```

```
    answer = "Result is an imaginary number"
```

```
if a >= 0:
    if a % 2 == 0:
    else:
    elif:
```

```
    answer = -(-a)**(1/b)
```

```
return answer
```

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

References: <https://www.w3resource.com/python/python-if-else-statements.php>

**NEW QUESTION 7**

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!")

**Answer:** A

**NEW QUESTION 8**

**HOTSPOT**

You work for a company that distributes media for all ages.

You are writing a function that assigns a rating based on a user's age. The function must meet the following requirements:

- ? Anyone 18 years old or older receives a rating of "A"
- ? Anyone 13 or older, but younger than 18, receives a rating of "T"
- ? Anyone 12 years old or younger receives a rating of "C"

? If the age is unknown, the rating is set to "C"  
You need to complete the code to meet the requirements.

### Answer Area

```
def get_rating(age):  
    rating = ""  
    if   
    elif age < 13: rating = "C"  
    elif age < 18: rating = "T"  
    elif : rating = "A"  
    else age == None: rating = "C"  
    return rating
```

```
def get_rating(age):  
    rating = ""  
    if   
    elif   
    elif age < 13: rating = "C"  
    elif age < 18: rating = "T"  
    else : rating = "A"  
    return age == None: rating = "C"
```

```
def get_rating(age):  
    rating = ""  
    if   
    elif   
    elif   
    else age < 13: rating = "C"  
    age < 18: rating = "T"  
    return : rating = "A"  
    age == None: rating = "C"
```

```
def get_rating(age):  
    rating = ""  
    if   
    elif   
    elif   
    else   
    return age < 13: rating = "C"  
    age < 18: rating = "T"
```

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

References: <https://www.w3resource.com/python/python-if-else-statements.php>

**NEW QUESTION 10**

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