



98-381^{Q&As}

Introduction to Programming Using Python

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**QUESTION 1**

You develop a Python application for your company.

A list named `employees` contains 200 employee names, the last five being company management. You need to slice the list to display all employees excluding management.

Which two code segments should you use? Each correct answer presents a complete solution. (Choose two.)

A. `employees [1:-4]`

B. `employees [:-5]`

C. `employees [1:-5]`

D. `employees [0:-4]`

E. `employees [0:-5]`

Correct Answer: BE

References: <https://www.w3resource.com/python/python-list.php#slice>

QUESTION 2**HOTSPOT**

You develop a Python application for your company.

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

```
01 def main(a,b,c,d):  
02     value = a+b*c-d  
03     return value
```

Use the drop-down menus to select the answer choice that answers each question based on the information presented in the code segment.

Hot Area:



Answer Area

Which part of the expression will be evaluated first?

a+b
b*c
c-d

Which operation will be evaluated second?

addition
subtraction

Which expression is equivalent to the expression in the function?

(a+b) * (c-d)
(a + (b*c)) - d
a + ((b * c) - d)

Correct Answer:

Answer Area

Which part of the expression will be evaluated first?

a+b
b*c
c-d

Which operation will be evaluated second?

addition
subtraction

Which expression is equivalent to the expression in the function?

(a+b) * (c-d)
(a + (b*c)) - d
a + ((b * c) - d)

QUESTION 3

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

QUESTION 4

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.

Hot 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
```



Correct Answer:



```
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
```

**QUESTION 5****DRAG DROP**

You are creating a Python script to evaluate input and check for upper and lower case.

Which four code segments should you use to develop the solution? To answer, move the appropriate code segment from the list of code segments to the answer area and arrange them in the correct order.

Select and Place:

Code Segments

```
else:  
    print(name, "is mixed case.")
```

```
else:  
    print(name, "is lower case.")
```

```
name = input("Enter your name: ")
```

```
else:  
    print(name, "is upper case.")
```

```
elif name.upper() == name:  
    print(name, "is all upper case.")
```

```
if name.lower() == name:  
    print(name, "is all lower case.")
```

Answer Area

Correct Answer:



Code Segments

```
else:  
    print(name, "is lower case.")
```

```
elif name.upper() == name:  
    print(name, "is all upper case.")
```

Answer Area

```
name = input("Enter your name: ")
```

```
if name.lower() == name:  
    print(name, "is all lower case.")
```

```
else:  
    print(name, "is upper case.")
```

```
else:  
    print(name, "is mixed case.")
```

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

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