98-381 Q&As

Introduction to Programming Using Python

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QUESTION 1

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.

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

Hot Area:

Answer Area

```
def get_rating(age):
    rating = ""
    if
```

age < 13: rating = "C"
age < 18: rating = "T"
: rating = "A"
age == None: rating = "C"

```
    elif
```

age < 13: rating = "C"
age < 18: rating = "T"
: rating = "A"
age == None: rating = "C"

```
    elif
```

age < 13: rating = "C"
age < 18: rating = "T"
: rating = "A"
age == None: rating = "C"

```
    else
```

age < 13: rating = "C"
age < 18: rating = "T"
: rating = "A"
age == None: rating = "C"

```
    return rating
```

Correct Answer:

Answer Area

```
def get_rating(age):

    rating = ""

    if [ _____ ▼ ]
        | age < 13: rating = "C"          |
        | age < 18: rating = "T"          |
        | : rating = "A"                  |
        | age == None: rating = "C"       |

    elif [ _____ ▼ ]
        | age < 13: rating = "C"          |
        | age < 18: rating = "T"          |
        | : rating = "A"                  |
        | age == None: rating = "C"       |

    elif [ _____ ▼ ]
        | age < 13: rating = "C"          |
        | age < 18: rating = "T"          |
        | : rating = "A"                  |
        | age == None: rating = "C"       |

    else [ _____ ▼ ]
        | age < 13: rating = "C"          |
        | age < 18: rating = "T"          |
        | : rating = "A"                  |
        | age == None: rating = "C"       |

    return rating
```

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

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

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   **Answer Area**

```
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.")
```

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

QUESTION 4

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

3

2.75

Correct Answer:

Results

Answer Area

2   print(a // b)

3   print(a % b)

2.75   print(a / b)

QUESTION 5

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
```

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