98-381 Q&As

Introduction to Programming Using Python

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QUESTION 1

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

QUESTION 2

HOTSPOT

The ABC company is building a basketball court for its employees to improve company morale.

You are creating a Python program that employees can use to keep track of their average score.

The program must allow users to enter their name and current scores. The program will output the user name and the user\\'s average score. The output must meet the following requirements:

The user name must be left-aligned.

If the user name has fewer than 20 characters, additional space must be added to the right.

The average score must have three places to the left of the decimal point and one place to the right of the decimal (XXX.X).

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.

Hot Area:

Answer Area

```
name = input("what is your name?")
score = 0
count = 0
while(score != -1):
    score = int(input("Enter your scores: (-1 to end)"))
    if score == -1:
        break
    sum += score
    count += 1
average_score = sum / count
print("[      ], your average score is: [      ]"%(name, average))
```

%-20i
%-20d
%-20f
%-20s

%1.4s
%4.1f
%4.1s
%1.4f

Correct Answer:

Answer Area

```
name = input("what is your name?")
score = 0
count = 0
while(score != -1):
    score = int(input("Enter your scores: (-1 to end)"))
    if score == -1:
        break
    sum += score
    count += 1
average_score = sum / count
print("[%-20i / %-20d / %-20f / %-20s], your average score is: [%1.4s / %4.1f / %4.1s / %1.4f]"%(name, average))
```

References: https://www.python-course.eu/python3_formatted_output.php

QUESTION 3

DRAG DROP

You are building a Python program that displays all of the prime numbers from 2 to 100.

How should you complete the code? To answer, drag the appropriate code segments to the correct location. Each code segment may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to

view content.

NOTE: Each correct selection is worth one point.

Select and Place:

Code Segments

```
p = 2
while p <= 100:
      is_prime = True
```

```
p = 2
is_prime = True
while p <= 100:
```

```
break
```

```
continue
```

```
p = p + 1
```

```
for i in range(2, p):
 if p / i = = 0:
     is_prime = False
```

```
for i in range(2, p):
 if p % i = = 0:
     is_prime = False
```

Answer Area

```
if is_prime = = True:
    print(p)
```

Correct Answer:

Code Segments

```
p = 2
is_prime = True
while p <= 100:
```

```
continue
```

```
for i in range(2, p):
 if p / i = = 0:
     is_prime = False
```

Answer Area

```
p = 2
while p <= 100:
      is_prime = True
```

```
for i in range(2, p):
 if p % i = = 0:
     is_prime = False
```

```
break
```

```
if is_prime = = True:
    print(p)
```

```
p = p + 1
```

References: https://docs.python.org/3.1/tutorial/inputoutput.html https://stackoverflow.com/questions/11619942/print-series-of-prime-numbers-in-python https://www.programiz.com/python-programming/examples/prime-number-intervals

QUESTION 4

You are writing code that generates a random integer with a minimum value of 5 and a maximum value of 11. Which two functions should you use? Each correct answer presents a complete solution. (Choose two.)

A. random.randint(5, 12)

B. random.randint(5, 11)

C. random.randrange(5, 12, 1)

D. random.randrange(5, 11, 1)

Correct Answer: BC

References: https://docs.python.org/3/library/random.html#

QUESTION 5

HOTSPOT

You are designing a decision structure to convert a student\\'s numeric grade to a letter grade. The program must assign a letter grade as specified in the following table:

Percentage range	Letter grade
90 through 100	A
80 through 89	B
70 through 79	C
65 through 69	D
0 through 64	F

For example, if the user enters a 90, the output should be, “Your letter grade is A”. Likewise, if a user enters an 89, the output should be “Your letter grade is B”. How should you complete the code? To answer, select the appropriate code segments in the answer area.

Hot Area:

```
#Letter Grade Converter

grade = int(input("Enter a numeric grade"))
```

[ ]
- if grade <= 90:
- if grade >= 90:
- elif grade > 90:
- elif grade >= 90:

```
letter_grade = 'A'
```

[ ]
- if grade > 80:
- if grade >= 80:
- elif grade > 80:
- elif grade >= 80:

```
letter_grade = 'B'
```

[ ]
- if grade > 70:
- if grade >= 70:
- elif grade > 70:
- elif grade >= 70:

[ ]

```
letter_grade = 'C'
```

[ ]
- if grade > 65:
- if grade >= 65:
- elif grade > 65:
- elif grade >= 65:

```
        letter_grade = 'D'
    else:
        letter_grade = 'F'
```

Correct Answer:

```
#Letter Grade Converter

grade = int(input("Enter a numeric grade"))
```

[ ]
- if grade <= 90:
- if grade >= 90:
- elif grade > 90:
- elif grade >= 90:

```
letter_grade = 'A'
```

[ ]
- if grade > 80:
- if grade >= 80:
- elif grade > 80:
- elif grade >= 80:

```
letter_grade = 'B'
```

[ ]
- if grade > 70:
- if grade >= 70:
- elif grade > 70:
- elif grade >= 70:

[ ]

```
letter_grade = 'C'
```

[ ]
- if grade > 65:
- if grade >= 65:
- elif grade > 65:
- elif grade >= 65:

```
        letter_grade = 'D'
    else:
        letter_grade = 'F'
```

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