Python Assignment 1

June 25, 2023

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[33]: #Q1. Using Python script as a calculator

# Create the variables n, r, p and assign them values 10, 5, and 100

respectively. Then

# evaluate the following expression in the Python console.

# = (1 + / 100)n

# a. 100

# b. 162.89

# c. 189

# d. None of the above

n = 10

r = 5

p = 100

# A = p*(1+(r/100))* n

# print(A)

print('d. None of the above')
```

d. None of the above

c. print(string.format(b,a))

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[30]: # Q3. In a given sample string, How do you print a double quoted string in between a

# regular

# string using the escape character?

# Sample output = It goes without saying, "Time is Money", and none can deny it.

# -----a. print("It goes without saying, \"Time is Money\", u
and none can deny it.")

# b. print("It goes without saying, \Time is Money\, and none can deny it.")

# c. print("It goes without saying" + "Time is Money" + "and none can deny it.")

# d. None of the above.

# print("It goes without saying, \"Time is Money\", and none can deny it.")

print('a. print("It goes without saying, \"Time is Money\", and none can deny it.")

□ it.")')
```

a. print("It goes without saying, \"Time is Money\", and none can deny it.")

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[34]: # Q4. What will be the output of the following code?

# x = lambda a,b: a//b

# x(10,3)

# a. 3.3333333333

# b. 3

# c. 30

# d. 1000

# x = lambda a,b: a//b

# print(x(10,3))

print('b. 3')
```

b. 3

```
[28]: # Q5. What will be the output of the following code?
# A = 10
# B = 12
# print("Smaller") if A == B else print("Greater") if A < B else print("True")
# a. True
# b. Smaller
# c. Greater
# d. None of the above

# print("Smaller") if A == B else print("Greater") if A < B else print("True")
print('c. Greater')</pre>
```

c. Greater

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[27]: # Q6. What will be the output of the following code?
# a. [2 7 3 5 4 6]
# b. TypeError
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# c. NameError: name 'numpy' is not defined
print('d. None of the above')
```

d. None of the above

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[37]: # Q7. Create a string called 'string' with the value as "Machine Learning".u

Which code(s)

# is/are appropriate to slice the substring "Learn"?

# a. string[slice(13,8,1)]

# b. string[slice(1,8,1)]

# c. string[slice(8,13,1)]

# string = 'Machine Learning'

# sti = string[slice(8,13,1)]

print('d. string[slice(8,13,1)]')
```

d. string[slice(8,13,1)]

b. 2

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[3]: # Q9. Which of the following is true with respect to the below codes?

# a. num1 = num2

# b. num1 num2

# c. num1 < num2

# d. num1 > num2

print('a. num1 = num2')
```

a. num1 = num2

```
[4]: # Q10.A Python NameError exception is raised when: -
# a. Trying to access a variable which has not been defined
# b. Trying to access a key in a dictionary that does not exist
# c. Accessing a column with misspelled column name
# d. Accessing the function from a module that has not been imported

print('a. Trying to access a variable which has not been defined')
```

a. Trying to access a variable which has not been defined

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[5]: # Q11.What type of exception will be raised for the code given below?
# a. NameError
# b. KeyError
# c. ValueError
# d. AttributeError
print('c. ValueError')
```

c. ValueError

b. A file or directory is requested but does not exist in the working directory

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[7]: # Q13.Consider a variable Z. The value of Z is "ID-5632". Data type of Z is: -
# a. Complex
# b. Character
# c. Integer
# d. Boolean

z = "ID-5632"
print(type(z))
```

<class 'str'>

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[9]: # Q14.Which of the following variable(s) are character data type?
# a. K= "4"
# b. J= "Welcome"
# c. L= "?"
# d. All of the above
print('a. K= "4"\nc. L= "?"')
```

```
a. K= "4"
c. L= "?"
```

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[10]: # Q15. Choose the symbol/s that does not have the ability to convert any values
      ⇔to string?
      # a. ()
      # b. " "
      # c. {}
      # d. #
     print('b. " "\nd. #')
     b. " "
     d. #
[24]: # Q16. Create a dictionary 'Country' that maps the following countries to their
      \hookrightarrow capitals
      # respectively:
      # Country India China Japan Qatar France
      # State Delhi Beijing Tokyo Doha Marseilles
      # Find 2 commands to replace "Marseilles" with "Paris" is:
      country = {'India':'Delhi','China':'Beijing','Japan':'Tokyo','Quatar':
      country['France'] = 'Paris'
      country.popitem()
      country['France']='Paris'
      for i, j in country.items():
         print(i,j)
     India Delhi
     China Beijing
     Japan Tokyo
     Quatar Doha
     France Paris
[30]: # Q17. Create the tuples given below
      # tuple_1 = (1,5,6,7,8)
      # tuple_2 = (8,9,4)
      # Identify which of the following code does not work on a tuple.
      # a. sum(tuple 1)
      # b. len(tuple_2)
      # c. tuple_2 + tuple_1
      # d. tuple_1[3] = 45
      print('d. tuple_1[3] = 45')
     d. tuple_1[3] = 45
[33]: # Q18. How many elements in the following data structure?
      print('6')
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[[3, 4, 5], [4, 3, 5], [5, 12, 13], [6, 8, 10], [7, 24, 25], [8, 6, 10], [8, 15, 17], [9, 12, 15], [9, 40, 41], [10, 24, 26], [12, 5, 13], [12, 9, 15], [12, 16, 20], [12, 35, 37], [15, 8, 17], [15, 20, 25], [15, 36, 39], [16, 12, 20], [16, 30, 34], [18, 24, 30], [20, 15, 25], [20, 21, 29], [21, 20, 29], [21, 28, 35], [24, 7, 25], [24, 10, 26], [24, 18, 30], [24, 32, 40], [28, 21, 35], [30, 16, 34], [32, 24, 40], [35, 12, 37], [36, 15, 39], [40, 9, 41]]