



## Python Basics Assignment

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**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.

$$A = p (1 + r/ 100)^n$$

- a. 100
- b. 162.89
- c. 189
- d. None of the above

**Q2.** In a given string format operation, how will you print the given string.

A = 10

B = 20

Str = "There are {} students in the class, with {} who play at least one sport."

- a. print(string.format(a,b))
- b. print(string+a+b)
- c. print(string.format(b,a))
- d. None of the above

**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\", 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.

**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

**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

**Q6.** What will be the output of the following code?

```
import os
import numpy as np
my_list1 = [2,7,3,5,4,6]
print(my_list1)
arr_1 = numpy.array(my_list1, dtype = int)
print(arr_1)
```

- a. [2 7 3 5 4 6]
- b. TypeError
- c. NameError: name 'numpy' is not defined
- d. None of the above

**Q7.** Create a string called 'string' with the value as "Machine Learning". 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[8:14]
- d. string[slice(8,13,1)]

**Q8.** Create a sequence of numbers from 10 to 25 and increment by 4. What is the index of the value 18?

- a. 3
- b. 2
- c. 0
- d. 1

**Q9.** Which of the following is true with respect to the below codes?

```
num1 = 5**4
num2 = pow(5,4)
print(num1,num2)
```

- a. num1 = num2
- b. num1 ≠ num2
- c. num1 < num2
- d. num1 > num2

**Q10.** A Python NameError exception is raised when: - (more than 1 answers are correct)

- 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

**Q11.**What type of exception will be raised for the code given below?

```
x = "string"  
int(x)
```

- a. NameError
- b. KeyError
- c. ValueError
- d. AttributeError

**Q12.**A **FileNotFoundError** exception is raised by operating system errors when: -

- a. Trying to create a file or directory which already exists
- b. A file or directory is requested but does not exist in the working directory
- c. Trying to run an operation without the adequate access rights
- d. A directory operation, `os.listdir()` is requested on something which is not a directory

**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

**Q14.**Which of the following variable(s) are string data type?

- a. K= "4"
- b. J= "Welcome"
- c. L= "?"
- d. All of the above

**Q15.**Choose the symbol/s that **does not** have the ability to convert any values to string?

- a. ( )
- b. " "
- c. { }
- d. #

**Q16.**Create a dictionary 'Country' that maps the following countries to their capitals respectively:

Country	India	China	Japan	Qatar	France
State	Delhi	Beijing	Tokyo	Doha	Marseilles

Find 2 commands to replace “Marseilles” with “**Paris**” is:

**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

**Q18.** How many elements in the following data structure?

S={1,2,3,4,4,4,5,6}

**Q19.** Write a function which finds all pythagorean triplets of triangles whose sides are no greater than a natural number N.