

Test - 1 for Data Analytics @5.30 PM

Total points 14/28 ?

Name

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✕ 1Q) Which of the following data types is immutable in Python?

0/1

- ☐ a) List
- ☐ b) Tuple
- ☒ c) Set
- ☐ d) Dictionary

✕

Correct answer

- ☒ b) Tuple



✓ 2Q) What is the output of the following code?

1/1

```
x = "Hello"  
print(x[1:4])
```

- ☐ a) "Hell"
- ☐ b) "ello"
- ☒ c) "ell"
- ☐ d) Error



✗ 3Q) Which of the following cannot be a Python variable name?

0/1

- ☒ a) Int_1
- ☐ b) true
- ☐ c) var-2
- ☐ d) name3



Correct answer

- ☒ c) var-2



✓ 4Q) Which of the following is not a Python Data Type?

1/1

- ☐ a) int
- ☐ b) string
- ☒ c) char
- ☐ d) Set



✗ 5Q) What is the output of the following code?

0/1

```
list1=['a','b','g',1,5]
```

```
print(list1.pop)
```

- ☐ a) 5
- ☐ b) ['a','b','g',1]
- ☒ c) ['b','g',1,5]
- ☐ d) Syntax error



Correct answer

- ☒ a) 5



✓ 6Q) num=4+0j

1/1

```
print(type(num))
```

- ☐ a) int
- ☐ b) float
- ☒ c) complex
- ☐ d) Real



✗ 7Q) Which of the following gives the output as "ello" from name="Hello, World!"?

0/1

- ☐ a) print(name[1:5])
- ☒ b) print(name[1:4])
- ☐ c) print(name[2:5])
- ☐ d) print(name[2:6])



Correct answer

- ☒ a) print(name[1:5])



✓ 8Q) set1={1,5,6,4,3}

1/1

```
print(set1)
```

- ☒ a) {1, 3, 4, 5, 6}
- ☐ b) {1,5,6,4,3}
- ☐ c) 1,5,6,4,3
- ☐ d) (1,5,6,4,3)



✗ 9Q) x = "Hello"

0/1

```
print(type(x))
```

- ☐ a) hello
- ☐ b) str
- ☒ c) string
- ☐ d) String



Correct answer

- ☒ b) str



✓ 10Q) `x = {"apple", "banana", "cherry"}`

1/1

`print(type(x))`

- ☒ a) set
- ☐ b) Set
- ☐ c) list
- ☐ d) List



✗ 11Q) How do you convert a floating-point number to an integer in Python? 0/1

- ☐ a) `int(number)`
- ☒ b) `float_to_int(number)`
- ☐ c) `number.int()`
- ☐ d) `convert(int, number)`



Correct answer

- ☒ a) `int(number)`



✖ 12Q) `x = [1, 2, 3]`

0/1

```
y = x.copy()
```

```
x.append(4)
```

```
print(y)
```

- ☐ a) `[1, 2, 3]`
- ☐ b) `[1, 2, 3, 4]`
- ☒ c) `[1, 2, 3, 4, 4]`
- ☐ d) `[1, 2, 3, 3]`

✖

Correct answer

- ☒ a) `[1, 2, 3]`

✔ 13Q) What is the purpose of the `enumerate()` function in Python?

1/1

- ☒ a) To get the index and value of each item in an iterable
- ☐ b) To count the occurrences of an element in an iterable
- ☐ c) To enumerate through a list
- ☐ d) To enumerate through a dictionary

✔



✓ 14Q) What is the output of the following code?

1/1

```
x = [1, 2, 3, 4]
```

```
y = filter(lambda a: a % 2 == 0, x)
```

```
print(list(y))
```

- ☐ a) [1, 3]
- ☒ b) [2, 4]
- ☐ c) [1, 2, 3, 4]
- ☐ d) []



✗ 15Q) What is the purpose of the __dict__ attribute in Python?

0/1

- ☐ a) To access the dictionary of a list
- ☐ b) To access the dictionary of a class or module
- ☒ c) To define a dictionary in Python
- ☐ d) To convert a dictionary to a list



Correct answer

- ☒ b) To access the dictionary of a class or module



✓ 16Q) Which of the following statements about Python strings is true? 1/1

- ☐ a) Strings in Python are mutable.
- ☐ b) Strings can only contain numeric characters.
- ☒ c) Strings can be concatenated using the "+" operator. ✓
- ☐ d) Strings can be accessed by numerical indices.

✗ 17Q) `x = "hello"` 0/1

```
y = x.replace("l", "L", 1)
print(y)
```

- ☒ a) hello ✗
- ☐ b) helLo
- ☐ c) heLLo
- ☐ d) heLo

Correct answer

- ☒ d) heLo



✓ 18Q) $x = 11, y = 3$

1/1

what is $z = x^{**}y$?

- ☐ a) 33
- ☐ b) 121
- ☐ c) 14
- ☒ d) 1331



✓ 19Q) $x = \{\text{"apple"}, \text{"banana"}, \text{"cherry"}\}$

1/1

$y = \{\text{"banana"}, \text{"cherry"}, \text{"date"}\}$

$z = x \mid y$

`print(z)`

- ☒ a) $\{\text{"apple"}, \text{"banana"}, \text{"cherry"}, \text{"date"}\}$
- ☐ b) $\{\text{"apple"}, \text{"banana"}, \text{"cherry"}\}$
- ☐ c) $\{\text{"banana"}, \text{"cherry"}\}$
- ☐ d) $\{\text{"apple"}\}$



✕ 20Q) What will be the output of the following code snippet?

0/1

```
x = 10
```

```
y = "20"
```

```
print(str(x) + y)
```

- ☐ a) 30
- ☐ b) "1020"
- ☒ c) Error
- ☐ d) "10200"



Correct answer

- ☒ b) "1020"

✓ 21Q) Find out and display the area of a rectangle of sides 45 and 76 respectively. 1/1

(Note: Area of rectangle = length * width)

☒ a) 3420



☐ b) 3240

☐ c) 3020

☐ d) 3402

✓ 22Q) Find the area of a circle whose radius is 8.9. Take pi = 3.14 1/1

(Note: Formula for the area of a circle is $(\pi \times \text{radius} \times \text{radius})$)

☒ a) 248.71940000000004



☐ b) 248

☐ c) 248.00

☐ d) 0



✕ 23Q) Declare two variables a and b

0/1

Assign Learning to a and is fun! to b

Display the sentence "Learning is fun!" using variables a and b in a single line?

- ☒ a) Print(a + b)
- ☐ b) print(a*b)
- ☐ c) print(a) , print(b)
- ☐ d) print(a , b)

✕

Correct answer

- ☒ d) print(a , b)



✕ 24Q) Select all the right ways to create a string literal Ault'Kelly ?

0/1

- ☐ a) `str1 = 'Ault\\'Kelly'`
- ☒ b) `str1 = 'Ault\'Kelly'`
- ☐ c) `str1 = ""Ault'Kelly""`
- ☐ d) All Correct



Correct answer

- ☒ b) `str1 = 'Ault\'Kelly'`
- ☒ c) `str1 = ""Ault'Kelly""`



✖ 25Q) `def func1() :`

0/1

`x = 50`

`return x`

`func1()`

`print(x)`

☒ a) 50

✖

☐ b) NameError

☐ c) None

☐ d) 0

Correct answer

☒ b) NameError



✓ 26Q) What is the output of the following code snippet?

1/1

```
x = [1, 2, 3]
```

```
y = x[:]
```

```
x[0] = 4
```

```
print(y)
```

- ☒ a) [1, 2, 3]
- ☐ b) [4, 2, 3]
- ☐ c) [1, 2, 3, 4]
- ☐ d) [4, 2, 3, 4]



✓ 27Q) What is the correct way to comment a single line in Python?

1/1

- ☐ a) // This is a comment
- ☒ b) # This is a comment
- ☐ c) /* This is a comment */
- ☐ d) -- This is a comment



✕ 28Q) What will be the output of the following code snippet?

0/1

```
x = (1, 2, 3)
```

```
y = x * 2
```

```
print(y)
```

☐ a) (1, 2, 3, 1, 2, 3)

☐ b) (1, 2, 3, 3, 2, 1)

☒ c) (2, 4, 6)

☐ d) (1, 2, 3)

✕

Correct answer

☒ a) (1, 2, 3, 1, 2, 3)

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