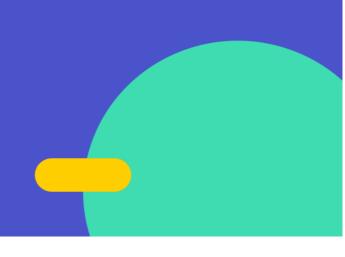Session 3

# Basics of Python

Assignment 2

⟨CODING HERO⟩

# Basics of Python Assignment-2

1. Which of the following are valid number data types in Python 3? Select all that apply:

| | |
|---|---|
| a. num | b. float |
| c. str | d. int |
| e. long | |

2. What's the name of the function for rounding numbers in Python?   round()

3. How do you get the absolute value of a number in Python?   ~~fabs()~~

| | |
|---|---|
| a. abs(-3.14) | b. \|-3.14\| |

4. What is the output of the following round() function call?

```
print(round(100.2563, 3))
print(round(100.000056, 3))
```

100.256
100.0

| | |
|---|---|
| a. 100.256<br>100 | b. 100.256<br>100.000 |
| c. 100.256<br>100.0 | |

5. What is the output of the following number conversion

z = complex(1.25)

| a.  (1.25+0j) | b.  Value Error: Missing an imaginary part of a complex number |
|---|---|

6. What is the output of print(abs(-45.300))

| a. 45.3 | b. -45.3 |
|---|---|
| c. -45.300 | d. 45.300 |

7. What is the output of the following math function

```python
import math
print(math.ceil(252.4))
print(math.floor(252.4))
```

| a.  252<br>252 | b.  252<br>253 |
|---|---|
| c.  253<br>252 | |

8. Select all correct float numbers

| a).  a = 10.1256 | b).  b = -10.5 |
|---|---|
| c).  c = 42e3 | d).  d = -68.7e100 |

9. What is the output of the following code

```python
print(int(2.999))
```

| a.  ValueError: invalid literal for int() | b.  3 |
|---|---|
| c.  2 | |

10 .Which Data Type represents a whole number?

| a. String | b. Integer |
|-----------|-----------|
| c. Float  | d. Boolean |

11. What data type to store the pi=3.14

| a. String | b. Integer |
|-----------|-----------|
| c. Float  | d. Boolean |

12. What data type for a variable called numberOfLives in a game?

| a. String | b. Integer |
|-----------|-----------|
| c. Float  | d. Boolean |

13. What is the correct definition for a VARIABLE?

| a. a changeable value, such as a score in a computer game. | b. a value that cannot be changed |
|-----------|-----------|

14. The value 1.73 rounded to one decimal place using the "rounding up" strategy is…

| a. 1.7 | b. 1.8 |
|--------|--------|

15. The value -2.961 rounded to two decimal places using the "rounding down" strategy is…

| c. -2.97 | d. -2.96 |
|----------|----------|

16. Which of the following is not a complex number?

| a. $k = 2 + 3j$ | b. $k = complex(2, 3)$ |
|-----------------|------------------------|
| c. $k = 2 + 3l$ | d. $k = 2 + 3J$ |

17. What will be the output of the following code :
print (type(type(int))).

| a. type 'int' | b. type 'type' |
|---|---|
| c. Error | d. 0 |

18. Which of the following functions is a built-in function in python?

| a. seed() | b. sqrt() |
|---|---|
| c. factorial() | d. print() |

19. What will be the output of the following Python expression?
round(4.576)

| a. 4.5 | b. 5 |
|---|---|
| c. 4 | d. 4.6 |

20. What will be the output of the following Python function?
min(max(False,-3,-4), 2,7)

| a. 2 | b. False |
|---|---|
| c. -3 | d. -4 |

21. Which of the following is the use of id() function in python?

| a. Id() returns the size of object. | b. Id() returns the identity of the object. |
|---|---|
| c. Both A and B | d. None of the above |

22. If we change one data type to another, then it is called

| a. Type conversion | b. Type casting |
|---|---|
| c. Both A and B | d. None of the above |

23. type() function in python is

| a. User defined | b. predefined |
|---|---|
| c. It is not function | d. None of the above |

24. What is the output of the following function print(type(3))

| a. int | b. char |
|---|---|
| c. array | d. None of the above |

25. What is the type of inf?

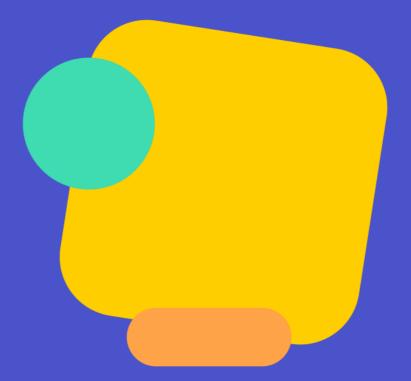| a. int | b. Float |
|---|---|
| c. complex | d. Boolean |

Reference:

https://pynative.com/python-numbers-quiz/

https://www.sanfoundry.com/python-questions-answers-built-in-functions-1/

http://letsfindcourse.com/technical-questions/python-mcq-questions/function

http://r4r.in/mcqs/learn.php?test_id=4&subid=1&subcat=Python&test=Data%20type%20in%20python