

WORKSHEET 3 PYTHON

Q1 to Q8 have only one correct answer. Choose the correct option to answer your question.

1. Which of the following will raise a value error in python?

- A) int(32)
- B) int(3.2)
- C) int(-3.2)
- D) int('32')

Answer

D) int('32')

2. What will be the output of round(3.567)?

- A) 3.5
- B) 3.0
- C) 4
- D) 3

Answer

C)4

3. How is the function pow(a,b,c) evaluated in python?

- A) a**b**c
- B) (a**b)%c
- C) (a**b)*c
- D) (a**b)**c

Answer

B) (ab)%c**

4. What will be the output of **print(type(type(int)))** in python 3?

- A) <class 'type'>
- B) <type 'type'>
- C) <class 'int'>
- D) <type 'int'>

Answer

A)<class 'type'>

5. What will be the output of **ord(chr(65))**?

- A) 'A'
- B) 'a'
- C) 65
- D) TypeError

Answer

C)65

6. What is called when a function is defined inside a class?

- A) Module
- B) Function
- C) _init_ function
- D) Method

Answer

D) Method

7. What will be the output of **all([1, 0, 5, 7])**?

- A) 0
- B) False
- C) True
- D) error

Answer

B)False

8. Is the output of the function `abs()` the same as that of the function `math.fabs()`?
- A) Always
 - B) Sometimes
 - C) Never
 - D) None of these

Answer

B) Sometimes

Q9 and Q10 have multiple correct answers. Choose all the correct options to answer your question.

9. Select all correct float numbers in python?
- A) -68.7e100
 - B) 42e3
 - C) 4.2038
 - D) 3.0

Answer

A) -68.7e100
C) 4.2038

10. Which of the following is(are) correct statement(s) in python?
- A) You can pass positional arguments in any order.
 - B) You can pass keyword arguments in any order.
 - C) You can call a function with positional and keyword arguments.
 - D) Positional arguments must be before keyword arguments in a function call

Answer

B) You can pass keyword arguments in any order.
C) You can call a function with positional and keyword arguments.
D) Positional arguments must be before keyword arguments in a function call

Q11 to Q15 are programming questions. Answer them in Jupyter Notebook.

11. Write a python function print pyramid of stars. Level of the pyramid should be taken as an input from the user. E.g.
Input = 5
Output:

```
  *
 * *
* * *
* * * *
* * * * *
```

12. Write a python function print Hourglass pattern.

E.g.

Input = 5

Output:

```

* * * * *
 * * * * 
  * * *  
   * *   
    *    
   * *   
  * * *  
 * * * * 
* * * * *
```

13. Write a python function to print Pascal's Triangle. The number of levels in the triangle must be taken as input by the user. E.g.

Input = 5

Output:

```

1
1 1
1 2 1
1 3 3 1
1 4 6 4 1
```

14. Write a python function to print Diamond Shaped Pattern shown below. Function must take integer input which represents the number of stars in the middle most line. E.g.:

Input = 5

Output:

```

  *
 * *
* * *
* * * *
* * * * *
 * * * *
  * * *
   * *
    *
```

FLIP ROBO

15. Write a python function to print Diamond Shaped Character Pattern shown below. Function must take integer input within range 1 to 26, which represents the rank of the alphabet. E.g.:

Input = 5

Output:

```

  A
 A B
A B C
A B C D
A B C D E
 A B C D
  A B C
   A B
    A
```