

Python assignment worksheet set 1

fliprobo internship

1. Which of the following operators is used to calculate remainder in a division?

- A) # B) &
- C) % D) \$

Answer : C

2. In python 2//3 is equal to?

- A) 0.666 B) 0
- C) 1 D) 0.67

Answer : B

3. In python, 6<<2 is equal to?

- A) 36 B) 10
- C) 24 D) 45

Answer : C

4. In python, 6&2 will give which of the following as output?

- A) 2 B) True
- C) False D) 0

Answer : B

5. In python, 6|2 will give which of the following as output?

- A) 2 B) 4
- C) 0 D) 6

Answer : D

6. What does the finally keyword denotes in python?

- A) It is used to mark the end of the code

- B) It encloses the lines of code which will be executed if any error occurs while executing the lines of code in the try block.
- C) the finally block will be executed no matter if the try block raises an error or not.
- D) None of the above

Answer : C

7. What does raise keyword is used for in python?
- A) It is used to raise an exception. B) It is used to define lambda function
 - C) it's not a keyword in python. D) None of the above

Answer : A

8. Which of the following is a common use case of yield keyword in python?
- A) in defining an iterator B) while defining a lambda function
 - C) in defining a generator D) in for loop.

Answer : C

9. Which of the following are the valid variable names?
- A) _abc B) 1abc
 - C) abc2 D) None of the above

Answer: A C

10. Which of the following are the keywords in python?
- A) yield B) raise
 - C) look-in D) all of the above

Answer : A B

11. Write a python program to find the factorial of a number.

Answer :

```
num = int(input("enter number whose factorial needs to be calculated"))
```

```
fact=1
for i in range (1, num+1):
    fact = fact*i
print("the factorial is ", fact)
```

12. Write a python program to find whether a number is prime or composite.

Answer :

```
number = int(input("enter number to check for prime"))
if number > 1:
    for i in range(2, number):
        if number % i == 0:
            print(f"{number} is a composite number.")
            break
    else:
        print(f"{number} is a prime number.")
else:
    print(f"{number} is neither prime nor composite.")
```

13. Write a python program to check whether a given string is palindrome or not.

```
Answer :
text=input("enter text (lowercase only)")
if text == text[::-1]:
    print(f"{text} is a palindrome.")
else:
    print(f"{text} is not a palindrome.")
```

14. Write a Python program to get the third side of right-angled triangle from two given sides.

Answer :

```
import math
side1=int(input("enter first side of right triangle"))
side2=int(input("enter second side of right triangle"))
h = math.sqrt(side1**2 + side2**2)
print("the third side is ", h)
```

15. Write a python program to print the frequency of each of the characters present in a given string.

Answer :

```
input_string = input("Enter string")
char_frequency = {}
for char in input_string:
    if char in char_frequency:
        char_frequency[char] += 1
    else:
        char_frequency[char] = 1
print("Character frequencies:")
for char, freq in char_frequency.items():
    print(f"{char}: {freq}")
```