PYTHON ASSIGNMENT WORKSHEET 1

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

1. In python 2//3 is equal to? B) 0

3.In python, 6<<2 is equal to? C) 24

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

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

1. What does the finally keyword denotes in python? C) the finally block will be executed no matter if the try block raises an error or not.

1. What does raise keyword is used for in python? A) It is used to raise an exception.

1. Which of the following is a common use case of yield keyword in python? C) in defining a generator

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

1. Which of the following are the valid variable names? A) _abc C) abc2

1. Which of the following are the keywords in python? A) yield B) raise

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

In [1]:
```
a = int(input("Enter a number: "))
f = 1
for i in range(1,a+1):
    f = f * i
print(f'The factorial of the number is {f}')
```

```
Enter a number: 3
The factorial of the number is 6
```

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

In [2]:
```
num = int(input("Enter any number : "))
if num > 1:
    for i in range(2, num):
        if (num % i) == 0:
```

```
            print(num, "is NOT a prime number")
            break
    else:
        print(num, "is a PRIME number")
elif num == 0 or 1:
    print(num, "is a neither prime NOR composite number")
else:
    print(num, "is NOT a prime number it is a COMPOSITE number")
```

```
Enter any number : 5
5 is a PRIME number
```

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

In [3]:
```
def isPalindrome(s):
    return s == s[::-1]

 # Driver code
s = "ABA"
ans = isPalindrome(s)

if ans:
    print("Yes")
else:
    print("No")
```

```
Yes
```

In [4]:
```
def isPalindrome(s):
    return s == s[::-1]

 #Driver code
s = "malayalam"
ans = isPalindrome(s)

if ans:
    print("Yes")
else:
    print("No")
```

```
Yes
```

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

In [5]:
```
import math
a = float(input("Give side a: "))
b = float(input("Give side b: "))
c = math.sqrt(a ** 2 + b ** 2)
print(f"The length of the hypotenuse c is {c}")
```

```
Give side a: 3
Give side b: 4
The length of the hypotenuse c is 5.0
```

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

In [6]:
```
string = "DATA TRAINED"
```

```
for i in string:
    frequency = string.count(i)
    print(str(i) + ": " + str(frequency), end=", ")
```

```
D: 2, A: 3, T: 2, A: 3,  : 1, T: 2, R: 1, A: 3, I: 1, N: 1, E: 1, D: 2,
```

In [ ]: