Python worksheet

Q11 to Q15 are programming questions

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

In [1]:
```python
num=10

factorial=1
if num==0:
    print (factorial= 1)
else:
    for i in range (1, num+1):
        factorial= factorial*i
    print ("factorial=",factorial)
```

factorial= 3628800

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

In [69]:
```python
a=18
if a>1:

  for j in range(2,a):

    if (a % j) == 0:
      print(a, "is not a prime number")
      break
  else:
      print(a, "is a prime number")

  else:
      print("a is not a prime number")
```

18 is not a prime number

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

In [108…
```python
a="madam"

b=(a[::-1])
if a==b:
    print(a, "is palindrome")
else:
    print(a,"is not a palindrome")
```

```
madam is palindrome
```

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

In [113…

```python
from math import sqrt
a=12
b=5
third_side= sqrt(a*a + b*b)
print(third_side, "is the third side")
```

```
13.0 is the third side
```

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

In [126…

```python
st ="aabcaad"
freq={}
for i in  st:
    if i in freq:
        freq[i]+=1
    else:
        freq[i]=1

print(freq)
```

```
{'a': 4, 'b': 1, 'c': 1, 'd': 1}
```

In [ ]: