Today Topics

- String Methods

Data Structures

- List

In [1]:
```
# prime number
# 17 (1,2,3,...17)  # 2
# 17  (2,3,....16)  # 0
```

In [3]:
```
# factors
# 8 (1,2,4,8)

n = int(input("enter a number")) # 4(1,2,4)
c= 0 #1,2,3
for i in range(1,n+1): #1,2,3,4
    if n%i == 0: # 4%1==0, 4%2==0,4%3==0,4%4==0
        print(i,end =" ")
        c=c+1  # 1,2
print()
print(c)
```

```
enter a number8
1 2 4 8
4
```

In [11]:
```
n = int(input("enter a number")) # 6(1,2,3,6)
c= 2
for i in range(2,n): # 2,3,4,5
    if n%i == 0:
        #print(c)
        c=c+1
print(c)
```

```
enter a number6
4
```

In [3]:
```
print(5/2)
print(5//2)
print(5%2)
```

...

In [12]:
```
# prime number
# 17 (1,2,3,...17)  # 2  # 1 =0 #8 =4
# 17  (2,3,....16)  # 0
```

In [23]:
```
n = int(input())  #5
c=0 #1,2,3,4
for i in range(1,n+1): #1,2,3,4,5,6
    if n%i ==0:  # 6%1==0 6%2==0
        c+=1  # 1,2,3
       # print(i)
if c == 2:
    print(n, "is prime")
else:
    print(n,"is not prime")

```

...

In [20]:
```
c = 25
if c==25:
    print("yes")
```

```
yes
```

In [10]:
```
n = int(input())  #9
#c=0
for i in range(2,n+1): #2,3,4,5,6,7,8,9
    if n==2:
        print("prime")
    elif n%i ==0:  # 9%2==0
        print(n, "is not prime")
        break
    elif n%i!=0:
        print(n, "is prime")
        break
```

```
9
9 is prime
```

In [2]:
```
n = int(input())  #5
c=0
for i in range(2,n+1): #2,3,4,5
    if n%i ==0:
        c+=1
if c ==1:
    print("prime")
else:
    print("not prime")

```

...

In [ ]:

```
# 1,2,3,4,5
for i in range(1,6):
    if i==1:
        print("no 1")
    elif i ==2:
        print("no 2")
    elif i ==3:
        print("no 3")
    elif i ==4:
        print("no 4")
    else:
        print("no 5")
```