In [ ]:
```
#Write a python program to find the factorial of a number:
```

In [7]:
```
def factorial(n):
    if n==0:
        return 1
    else:
        return n*factorial(n-1)

n=int(input("Input a number to compute the factorial : "))
print (factorial(n))
```

```
Input a number to compute the factorial : 2
2
```

In [ ]:
```
#Write a python program to find whether a number is prime or composite:
```

In [9]:
```
n=int(input("Enter a natural number :"))

if n < 1:
    print("Number needs to be greater than 1")
elif n==1:
    print(n,"is nither prime nor composite")

else:
    for d in range(2,(n//2)+1):
        if ((n%d)==0):
            print(n,"is a composite number")
            break
    else:
        print(n,"is a prime number")
```

```
Enter a natural number :3
3 is a prime number
```

In [ ]:
```
#Write a python program to check whether a given string is palindrome or not:
```

In [12]:
```
s=input("Enter a string:")
r=(s[::-1])
if r==s:
    print("palindrome")

else:
    print("not palindrome")
```

```
Enter a string:clear
not palindrome
```

In [ ]:
```
#Write a python program to get the third side of a right-angle triangle from two
```

In [18]:
```
import math

a = float(input("Enter base: "))
b = float(input("Enter height: "))


c = math.sqrt(a ** 2 + b ** 2)

print("Hypotenuse =", c)
```

```
Enter base: 3
Enter height: 4
Hypotenuse = 5.0
```

In [ ]:
```
#Write a python program to print the frequency of each of the chatacters present
```

In [25]:
```
str1=input("Enter the string : ")
d1 = dict()
for c in str1:
    if c in d1:
        d1[c] = d1[c] + 1
    else:
        d1[c] = 1
print(d1)
```

```
Enter the string : STTRUUGGRRDD
{'S': 1, 'T': 2, 'R': 3, 'U': 2, 'G': 2, 'D': 2}
```

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