In [1]:
```
#11)#Write a python program to find the factorial of a number.

# change the value for a different result
num = 7

# To take input from the user
#num = int(input("Enter a number: "))

factorial = 1

# check if the number is negative, positive or zero
if num < 0:

    print("Sorry, factorial does not exist for negative numbers")
elif num == 0:
    print("The factorial of 0 is 1")
else:
    for i in range(1,num + 1):
        factorial = factorial * i
    print("The factorial of",num,"is",factorial)
```

```
The factorial of 7 is 5040
```

In [2]:
```
#12 Write a python program to find whether a number is prime or composite.
k=int(input("enter valur"))
if k%2==0:
    print("value of k is","prime")
else:
    print("value of k is","composite")
```

```
enter valur12
value of k is prime
```

In [3]:
```
#Write a python program to find whether a number is prime or composite.
k=int(input("enter valur"))
if k%2==0:
    print("value of k is","prime")
else:
    print("value of k is","composite")
```

```
enter valur55
value of k is composite
```

In [4]:
```
#13 Write a python program to check whether a given string is palindrome or not
def isPalindrome(s):
    return s == s[::-1]
#drive function
s = "malayalam"
ans = isPalindrome(s)

if ans:
    print("yes")
else:
    print("no")
```

```
yes
```

In [8]:
```
#15. Write a python program to print the frequency of each of the characters present in
import math

def side_length(o,a,h):
    if h =="x":
        h=a** 2+o**2
        return(round(math.sqrt(h),2))
    elif a=="x":
        a= h** 2-o**2
        return(round(math.sqrt(a),2))
    else:
        o= h** 2-a**2
        return(round(math.sqrt(o),2))

print('Hyp = ',side_length(3, 4, 'x'))
print('Adj = ',side_length(3, 'x', 5))
print('Opp = ',side_length('x', 4, 5))
```

```
Hyp =  5.0
Adj =  4.0
Opp =  3.0
```

In [9]:
```
#14. Write a Python program to get the third side of right-angled triangle from two giv
height = int(input("Enter the height of the triangle :"))
for i in range(1,height+1):
  for j in range(1,i+1):
    print(str(i)+" ", end='')
  print()
```

```
Enter the height of the triangle :3
1
2 2
3 3 3
```

In [ ]:
```

```