

In [6]:

```
#to display first n numbers
i=1
n=int(input("enter value of n="))
x="first {} numbers are"
print(x.format(n))
while i<=n:
    print(i,end=" ")
    i=i+1
```

```
enter value of n=15
first 15 numbers are
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
```

In [5]:

```
#to calculate factorial of a number
n=int(input("enter number:"))
def fact(n):
    f=1
    if n==1:
        return 1
    else:
        return (n*fact(n-1))
    print(n)
print("factorial of",n)
print(fact(n))
```

```
enter number:5
factorial of 5
120
```

In [12]:

```
#to display numbers in revers order
n=int(input("enter number:"))
r=0
while (n>0):
    remainder=n%10
    r=(r*10)+remainder
    n=n//10
print("the reverse number is",r)
```

```
enter number:56981
the reverse number is 18965
```

In [9]:

```
# to check number is prime
n=int(input("enter number:"))
if n>1:
    for i in range(2,n):
        if(n%i)==0:
            print("given number is not prime")
            break
    else:
        print("given number is prime")
else:
    print("given number is prime")
```

```
enter number:11
given number is prime
```

In [31]:

```
# to calculate sum and average of first n numbers
n = int(input("Enter Number to calculate sum and average:"))
x=n
sum=0
while (n >= 0):
    sum += n
    n-=1

avg = sum/ x

print ("sum of first {} numbers is {}".format(x,sum))
print ("average of first {} numbers is {}".format(x,avg))
```

```
Enter Number to calculate sum and average:5
sum of first 5 numbers is 15
average of first 5 numbers is 3.0
```

In [12]:

```
enter number:5
enter number of mutiples:6
5
10
15
20
25
30
```

In [15]:

```
#program to find sum of series 1+2+3+...+n
n=int(input("enter value of n:"))
s=0
for i in range(1,n+1):
    s=s+i
print("sum of series =",s)
```

```
enter value of n:5
sum of series = 15
```

In [41]:

```
#to display first n prime numbers
x= int(input("Find prime numbers upto : "))
for num in range(2, x + 1):
    for i in range(2, num):
        if(num % i == 0):
            i = num
            break;
    if(i != num):
        print(num,end=" ")
```

```
Find prime numbers upto : 6
2 3 5
```

In [35]:

```
#to display first n fibonacci numbers
n=int(input("find fibonacci numbers upto:"))
f=0
s=1
Sum=0
i=0
while i<n:
    print(f,end=" ")
    Sum=Sum+f
    Next=f+s
    f=s
    s=Next
    i=i+1
```

```
find fibonacci numbers upto:6
0 1 1 2 3 5
```

In []: