

```
1 for i in range(1,5,1):
2     print(i)
```

```
1
2
3
4
```

```
1 for i in range(5,0,-1):
2     print(i)
```

```
5
4
3
2
1
```

```
1 for i in range(1,4,0.5):
2     print(i)
```

```
-----
TypeError                                Traceback (most recent call last)
<ipython-input-8-a97c802bbf22> in <cell line: 1>()
----> 1 for i in range(1,4,0.5):
      2     print(i)
```

**TypeError:** 'float' object cannot be interpreted as an integer

SEARCH STACK OVERFLOW

```
1 i=1
2 while i<=3:
3     print(i)
4     i+=0.5
```

```
1
1.5
2.0
2.5
3.0
```

```
1 for i in range(1,4):
2     for j in range(1,4):
3         print("i:",i," j:",j)
```

```
i: 1 j: 1
i: 1 j: 2
i: 1 j: 3
i: 2 j: 1
i: 2 j: 2
i: 2 j: 3
i: 3 j: 1
i: 3 j: 2
i: 3 j: 3
```

```

1 for i in range(1,6):
2     for j in range(1,i+1):
3         print(j%2," ",end='')
4     print()

```

```

1
1 0
1 0 1
1 0 1 0
1 0 1 0 1

```

```

1 for i in range(5,0,-1):
2     for j in range(1,i+1):
3         print(j," ",end='')
4     print()

```

```

1 2 3 4 5
1 2 3 4
1 2 3
1 2
1

```

```

1 for i in range(5,0,-1):
2     for j in range(1,i+1):
3         print(i," ",end='')
4     print()

```

```

5 5 5 5 5
4 4 4 4
3 3 3
2 2
1

```

```

1 for i in range(1,6):
2     for j in range(1,i+1):
3         print(i%2," ",end='')
4     print()

```

```

1
0 0
1 1 1
0 0 0 0
1 1 1 1 1

```

```

1 for i in range(5,0,-1):
2     for j in range(5,i-1,-1):
3         print(j," ",end='')
4     print()

```

```

5
5 4
5 4 3
5 4 3 2
5 4 3 2 1

```

```

1 '''
2 1
3 2 3
4 4 5 6
5 7 8 9 10
6 '''
7 k=1
8 for i in range(1,6):
9     for j in range(1,i+1):
10         print(k," ",end='')
11         k+=1
12     print()

```

```

1
2 3
4 5 6
7 8 9 10
11 12 13 14 15

```

```

1 space=5
2 i=1
3 while i<=5:
4     s=1
5     while s<=space:#space printing
6         print(" ",end=" ")
7         s+=1
8     j=1
9     while j<=i:
10         print(j," ",end="")
11         j+=1
12     i+=1
13     space-=1
14     print()
15
16
17
18

```

```

      1
     1 2
    1 2 3
   1 2 3 4
  1 2 3 4 5

```

```

1 #Armstrong 153=1^3+5^3+3^3
2 for no in range(100,1000):
3     tno=no
4     sum=0
5     while tno>0:
6         d=tno%10
7         tno=tno//10
8         sum=sum+d**3
9     if sum==no:
10         print(no)

```

```
11
12
```

```
153
370
371
407
```

```
1 for y in range(int(input("Enter start:")),int(input("Enter end:"))+1):
2     if(y%4==0 and y%100!=0)or(y%400==0):
3         print(y,"is a Leap")
4
```

```
Enter start:2000
Enter end:2023
2000 is a Leap
2004 is a Leap
2008 is a Leap
2012 is a Leap
2016 is a Leap
2020 is a Leap
```

```
1 #fibonacci 0 1 1 2 3 5 8...
2 f0,f1=0,1
3 for i in range(0,int(input("Enter n:"))):
4     if i<=1:
5         print(i,"",end="")
6     else:
7         fn=f0+f1
8         f0,f1=f1,fn
9         print(fn,"",end="")
```

```
Enter n:10
0 ,1 ,1 ,2 ,3 ,5 ,8 ,13 ,21 ,34 ,
```

```
1 #fibonacci 0 1 1 2 3 5 8...
2 no=int(input("Enter a number:"))
3 f0,f1=0,1
4 for i in range(0,no+1):
5     if i<=1:
6         if no==0 or no==1:
7             print(no,"in series")
8     else:
9         fn=f0+f1
10        if no==fn:
11            print(no,"Found in series")
12            break
13        elif fn>no:
14            print(no,"not found in series")
15            break
16        f0,f1=f1,fn
17
```

```
Enter a number:5
5 Found in series
```

```
1 no1=int(input("Enter a number:"))
2 no2=int(input("Enter another number:"))
3 while no1%no2!=0:
4     no1,no2=no2,no1%no2
5 print(no2,":GCD")
```

```
Enter a number:18
Enter another number:12
6 :GCD
```

```
1 #print table of a number entered by user
2 no:2
3 2 X 1= 2
4 2 X 2= 4
5 .
6 .
7 .
8 .
9 2X10=20
```

```
1 no=int(input("Enter a number:"))
2 for i in range(1,11):
3     print(no,"X",i,"=",no*i)
```

```
Enter a number:6
6 X 1 = 6
6 X 2 = 12
6 X 3 = 18
6 X 4 = 24
6 X 5 = 30
6 X 6 = 36
6 X 7 = 42
6 X 8 = 48
6 X 9 = 54
6 X 10 = 60
```

```
1 #prime
2 no=int(input("Enter a number:"))
3 flag=True
4 for i in range(2,no):
5     if no%i==0:
6         flag=False
7         break
8 if flag:#flag==True
9     print(no,"is prime")
10 else:
11     print(no,"is not prime")
12
13
```

```
Enter a number:12
12 is not prime
```

```
1 for no in range(1,101):
2     flag=True
3     for i in range(2,no):
4         if no%i==0:
5             flag=False
6             break
7     if flag:#flag==True
8         print(no,"is prime")
9
```

```
1 is prime
2 is prime
3 is prime
5 is prime
7 is prime
11 is prime
13 is prime
17 is prime
19 is prime
23 is prime
29 is prime
31 is prime
37 is prime
41 is prime
43 is prime
47 is prime
53 is prime
59 is prime
61 is prime
67 is prime
71 is prime
73 is prime
79 is prime
83 is prime
89 is prime
97 is prime
```

```
1 '''
2 1+9=10
3 2+8=10
4
5
6
7
8 9+1=10
9 '''
10 for i in range(1,10):
11     print(i,"+",(10-i),"=", (i+(10-i)))
```

```
1 + 9 = 10
2 + 8 = 10
3 + 7 = 10
4 + 6 = 10
5 + 5 = 10
6 + 4 = 10
7 + 3 = 10
8 + 2 = 10
9 + 1 = 10
```

```
1 #list all number from 1 to 50 perfectly div by 3 and 5
2 for i in range(1,51):
3     if i%3==0 and i%5==0:
4         print(i)
```

```
15
30
45
```

```
1
```

