

```
for i in range(1,11):  
    print(i,end=' ')
```

1 2 3 4 5 6 7 8 9 10

```
def shownumbers():  
    for i in range(1,11):  
        print(i,end=' ')
```

```
shownumbers()
```

1 2 3 4 5 6 7 8 9 10

```
shownumbers()
```

1 2 3 4 5 6 7 8 9 10

```
shownumbers()
```

1 2 3 4 5 6 7 8 9 10

```
for i in range(1,11):  
    print(6,'*',i,'=',6*i)
```

6 \* 1 = 6  
6 \* 2 = 12  
6 \* 3 = 18  
6 \* 4 = 24  
6 \* 5 = 30  
6 \* 6 = 36  
6 \* 7 = 42  
6 \* 8 = 48  
6 \* 9 = 54  
6 \* 10 = 60

```
def table():  
    for i in range(1,11):  
        print(6,'*',i,'=',6*i)
```

```
table()
```

6 \* 1 = 6  
6 \* 2 = 12  
6 \* 3 = 18  
6 \* 4 = 24  
6 \* 5 = 30  
6 \* 6 = 36  
6 \* 7 = 42  
6 \* 8 = 48  
6 \* 9 = 54  
6 \* 10 = 60

```
table()
```

```
6 * 1 = 6
6 * 2 = 12
6 * 3 = 18
6 * 4 = 24
6 * 5 = 30
6 * 6 = 36
6 * 7 = 42
6 * 8 = 48
6 * 9 = 54
6 * 10 = 60
```

```
table()
```

```
6 * 1 = 6
6 * 2 = 12
6 * 3 = 18
6 * 4 = 24
6 * 5 = 30
6 * 6 = 36
6 * 7 = 42
6 * 8 = 48
6 * 9 = 54
6 * 10 = 60
```

## ▼ global variable

```
def table():
    for i in range(1,11):
        print(table_num,'*',i,'=',table_num * i)
```

```
table_num = 5
table()
```

```
5 * 1 = 5
5 * 2 = 10
5 * 3 = 15
5 * 4 = 20
5 * 5 = 25
5 * 6 = 30
5 * 7 = 35
5 * 8 = 40
5 * 9 = 45
5 * 10 = 50
```

```
table_num = 8
table()
```

```
8 * 1 = 8
8 * 2 = 16
8 * 3 = 24
8 * 4 = 32
8 * 5 = 40
8 * 6 = 48
8 * 7 = 56
```

```
8 * 8 = 64
8 * 9 = 72
8 * 10 = 80
```

```
table_num = 15
table()
```

```
15 * 1 = 15
15 * 2 = 30
15 * 3 = 45
15 * 4 = 60
15 * 5 = 75
15 * 6 = 90
15 * 7 = 105
15 * 8 = 120
15 * 9 = 135
15 * 10 = 150
```

```
def table():
    for i in range(start_value, stop_value + 1):
        print(table_num, '*', i, '=', table_num * i)
```

```
# global variables
table_num = 7
start_value = 5
stop_value = 15
```

```
table()
```

```
7 * 5 = 35
7 * 6 = 42
7 * 7 = 49
7 * 8 = 56
7 * 9 = 63
7 * 10 = 70
7 * 11 = 77
7 * 12 = 84
7 * 13 = 91
7 * 14 = 98
7 * 15 = 105
```

```
table_num = 9
table()
```

```
9 * 5 = 45
9 * 6 = 54
9 * 7 = 63
9 * 8 = 72
9 * 9 = 81
9 * 10 = 90
9 * 11 = 99
9 * 12 = 108
9 * 13 = 117
9 * 14 = 126
9 * 15 = 135
```

```
stop_value = 20  
table()
```

```
9 * 5 = 45  
9 * 6 = 54  
9 * 7 = 63  
9 * 8 = 72  
9 * 9 = 81  
9 * 10 = 90  
9 * 11 = 99  
9 * 12 = 108  
9 * 13 = 117  
9 * 14 = 126  
9 * 15 = 135  
9 * 16 = 144  
9 * 17 = 153  
9 * 18 = 162  
9 * 19 = 171  
9 * 20 = 180
```

## ▼ local variable

```
# variable, which is defined in-side a function definition  
# called as local variable
```

```
name = 'lokesh'  
def wish():  
    print('hello',name,'good afternoon')
```

```
wish()
```

```
hello lokesh good afternoon
```

```
name = 'sandeep'  
wish()
```

```
hello sandeep good afternoon
```

```
name = 'jagadeesh'  
wish()
```

```
hello jagadeesh good afternoon
```

```
name = 'srinath'  
def wish():  
    name = 'narendra'  
    print('Hello',name,'good afternoon')
```

```
wish()
```

```
Hello narendra good afternoon
```

```
def wish():  
    name = 'Anushka'  
    print('Hello',name,'good afternoon')
```

```
wish()
```

```
Hello Anushka good afternoon
```

```
print(name)
```

```
srinath
```

```
name = 'srinath'  
def wish():  
    # global variable and local variable both can not be accessed  
    # in-side a function definition  
    name = 'lokesh'  
    print('Hello',name,'good afternoon')  
    print('Hello',name,'good afternoon')
```

```
wish()
```

```
Hello lokesh good afternoon  
Hello lokesh good afternoon
```

```
name = 'srinath'  
def wish():  
    name = 'lokesh'  
    print('Hello',name,'good afternoon')  
    name = 'bhanu prakash'  
    print('Hello',name,'good afternoon')
```

```
wish()  
print(name)
```

```
Hello lokesh good afternoon  
Hello bhanu prakash good afternoon  
srinath
```

```
name = 'srinath'  
def wish():  
    print('Hello',name,'good afternoon')  
    name = 'lokesh'  
    print('Hello',name,'good afternoon')
```

```

name = 'bhanu prakash'
print('Hello' name 'good afternoon')
wish()

```

```

-----
UnboundLocalError                                Traceback (most recent call last)
<ipython-input-40-c0e1380c0921> in <module>
----> 1 wish()

```

```

<ipython-input-39-a595403d0152> in wish()
      1 name = 'srinath'
      2 def wish():
----> 3     print('Hello',name,'good afternoon')
      4     name = 'lokes'
      5     print('Hello',name,'good afternoon')

```

UnboundLocalError: local variable 'name' referenced before assignment

SEARCH STACK OVERFLOW

```

name = 'srinath'
def wish():
    name = 'lokes'
    name = 'sandeep'
    print(name)

```

```

wish()
print(name)

```

```

sandeep
srinath

```

```

name = 'srinath'
def wish():
    name = 'lokes'
    print(name)
    name = 'sandeep'
    print(name)

```

```

wish()

```

```

lokes
sandeep

```

---

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