

```
a = 10
b = 50
print('python')
print('django')
a > b
print('html')
```

python
django
html

```
a = 10
b = 50
print('python')
print('django')
if a > b:
    print('html')
```

python
django

```
a=10
b=20
if a>b:
    print('a is big')
if b>a:
    print('b is big')
    print('a is small')
```

b is big
a is small

```
if a>b:
    print('a is big')
else:
    print('b is big')
```

b is big

```
a = 100
b = 50
print('python')
if a > b:
    pass
```

python

```
a = 20
b = 20
print('python')
print('django')
if a - b:
    print('html')
    print('css')
```

python
django

```
a = 10
b = 20
print('python')
print('django')
if b - a:
    print('html')
    print('css')
```

python
django
html
css

```
a = 10
b = 20
s1='python'
s2='django'
if s1.islower():
    print('html')
    print('css')
```

→ html
css

```
if '@':
    print('html')
    print('css')
```

→ html
css

```
bike_color = 'red'
if bike_color == 'yellow':
    print('your bike is in yellow color')
else:
    print('your bike is not in yellow color')
```

→ your bike is not in yellow color

```
money = 80
if money == 100:
    print(money,'is equal to 100')
else:
    if money < 100:
        print(money,'is less than 100')
    else:
        print(money,'is grater than 100')
```

→ 80 is less than 100

```
amount = 800
if amount >= 2000:
    print('2000 notes :',amount // 2000)
    amount = amount % 2000
if amount >= 500:
    print('500 notes :',amount // 500)
    amount = amount % 500
if amount >= 200:
    print('200 notes :',amount // 200)
    amount = amount % 200
if amount >= 100:
    print('100 notes :',amount // 100)
    amount = amount % 100
```

→ [Show hidden output](#)

```
amount = 1800
print('2000 notes :',amount//2000)
amount = amount % 2000
print('500 notes :',amount//500)
amount = amount % 500
print('200 notes :',amount//200)
amount = amount % 200
print('100 notes :',amount//100)
amount = amount % 100
```

→ 2000 notes : 0
500 notes : 3
200 notes : 1
100 notes : 1

```

amount = input('Please enter valid amount : ')
if amount.isdigit():
    amount = int(amount) # data type conversion
    if amount % 100 == 0:
        if amount >= 2000:
            print('2000 notes :',amount // 2000)
            amount = amount % 2000
        if amount >= 500:
            print('500 notes :',amount // 500)
            amount = amount % 500
        if amount >= 200:
            print('200 notes :',amount // 200)
            amount = amount % 200
        if amount >= 100:
            print('100 notes :',amount // 100)
            amount = amount % 100
    else:
        print(amount,'is invalid amout')
else:
    print(amount,'is invalid data')

```

➞ Please enter valid amount : 3800
 2000 notes : 1
 500 notes : 3
 200 notes : 1
 100 notes : 1

```

value = 10
# 100 is equal to 100
# 90 is less than 100
# 180 is grater than 100
if value == 100:
    print(value,'is equal to 100')
else:
    if value < 100:
        print(value,'is less than 100')
    else:
        print(value,'is grater than 100')

```

➞ 10 is less than 100

```

value = 100
if value == 100:
    print(value,'is equal to 100')
elif value > 100:
    print(value,'is grater than 100')
else:
    print(value,'is less than 100')

```

➞ 100 is equal to 100

```

amount = 300
if amount >= 500:
    print('ice-cream : family pack')
elif amount >= 400:
    print('ice-cream : large')
elif amount >= 300:
    print('ice-cream : medium')
elif amount >= 200:
    print('ice-cream : small')
elif amount >= 100:
    print('ice-cream : cup')
else:
    print('ice-cream : sample')

```

➞ ice-cream : medium

```

brand = 'honda'
model = 'shine'
if brand == 'bajaj':
    print('welcome to bajaj')
    if model == 'pulsar':
        print('pulsar')
    elif model == 'boxer':
        print('boxer')
    else:
        print('invalid model selection')
elif brand == 'hero':
    print('welcome to hero')
    if model == 'splender':
        print('splender')
    elif model == 'passion':
        print('passion')
    else:
        print('Invalid model selection')
elif brand == 'honda':
    print('welcome to honda')
    if model == 'shine':
        print('shine')
    elif model == 'unicorn':
        print('unicorn')
    else:
        print('Invalid model selection')
else:
    print('Invalid brand selection')

```

```

welcome to honda
shine

```

```

name = 'Imran'
if name[0] in 'aeiouAEIOU':
    print(name,'starts with vowel')
else:
    print(name,'starts with consonent')

```

```

Imran starts with vowel

```

```

name = 'Lalitha'
if name[0].isupper():
    print(name,'starts with upper-case')
else:
    print(name,'not starts with upper-case')

```

```

Lalitha not starts with upper-case

```

```

s = 'python'
for i in s:
    print(i)

```

```

p
y
t
h
o
n

```

```

s = 10
for i in s:
    print(i,end=' ')

```

```

-----
TypeError                                Traceback (most recent call last)
<ipython-input-3-a2d808957172> in <cell line: 2>()
      1 s = 10
----> 2 for i in s:
      3     print(i,end=' ')

TypeError: 'int' object is not iterable

```

```

s = 'hyderabad'
for i in s:
    print(i.upper(),end=' ')

```

```

H Y D E R A B A D

```

```
s = 'HyDeraBad'
for i in s:
    if i in 'aeiouAEIOU':
        print(i.upper(),end=' ')
    else:
        print(i.lower(),end=' ')
```

h y d E r A b A d

```
s = 'hyderabad'
for i in s:
    pass
    print(i,end=' ')
else:
    print('for loop completed')
```

h y d e r a b a d for loop completed

```
s = 'hyderabad'
for i in range(0,9): # range(9) = (0,1,2,3,4,5,6,7,8)
    pass
    print(s[i],end=' ')
else:
    print('for loop completed')
```

h y d e r a b a d for loop completed

```
s = 'jagadeesh'
count = 0
for i in s:
    if i in 'aeiouAEIOU':
        count = count + 1
else:
    print('vowel count :',count) # 4
```

vowel count : 4

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

1
2
3
4

```
for i in range(False,True):
    print(i)
```

0

```
for i in range(5):
    if i > 2:
        break
    print(i)
else:
    print(i)
```

0
1
2

```
s = 'hyderabad'
s1 = ''
s2 = ''
for i in range(len(s)):
    if i % 2 == 0:
        s1 = s1 + s[i]
    else:
        s2 = s2 + s[i]
print(s1,s2)
```

hdrbd yeaa

```
for i in range(0,20,3):
    print(i,end=' ')
```

0 3 6 9 12 15 18

```
for i in range(30,20,-3):
    print(i,end=' ')
```

```
→ 30 27 24 21
```

```
for i in range(20,13,100):
    print(i,end=' ')
```

```
for i in range(0,20,0):
    print(i,end=' ')
```

```
→ -----
ValueError                                Traceback (most recent call last)
<ipython-input-8-bb221ce66bf0> in <cell line: 1>()
----> 1 for i in range(0,20,0):
      2     print(i,end=' ')

ValueError: range() arg 3 must not be zero
```

```
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
```

```
table_num = input('please enter table number : ')
table_num = int(table_num)
for i in range(1,11,1):
    print(table_num,'*',i,'=',table_num * i)
```

```
→ please enter table number : 3
   3 * 1 = 3
   3 * 2 = 6
   3 * 3 = 9
   3 * 4 = 12
   3 * 5 = 15
   3 * 6 = 18
   3 * 7 = 21
   3 * 8 = 24
   3 * 9 = 27
   3 * 10 = 30
```

```
table_num = input('please enter table number : ')
for i in range(1,11,1):
    print(table_num,'*',i,'=',table_num * i)
```

```
→ please enter table number : Hi
   Hi * 1 = Hi
   Hi * 2 = Hi Hi
   Hi * 3 = Hi Hi Hi
   Hi * 4 = Hi Hi Hi Hi
   Hi * 5 = Hi Hi Hi Hi Hi
   Hi * 6 = Hi Hi Hi Hi Hi Hi
   Hi * 7 = Hi Hi Hi Hi Hi Hi Hi
   Hi * 8 = Hi Hi Hi Hi Hi Hi Hi Hi
   Hi * 9 = Hi Hi Hi Hi Hi Hi Hi Hi Hi
   Hi * 10 = Hi Hi Hi Hi Hi Hi Hi Hi Hi Hi
```

```
table_num = input('please enter table number : ')
if table_num.isdigit() == True:
    table_num = int(table_num)
    if table_num > 0 and table_num < 11:
        for i in range(1,11,1):
            print(table_num,'*',i,'=',table_num * i)
    else:
        print('Invalid table number range')
else:
    print('Invalid input data')
```

```
→ please enter table number : 7
   7 * 1 = 7
   7 * 2 = 14
   7 * 3 = 21
```

```

7 * 4 = 28
7 * 5 = 35
7 * 6 = 42
7 * 7 = 49
7 * 8 = 56
7 * 9 = 63
7 * 10 = 70

```

```

s = input('please enter data : ')
print('+ve indexes:')
for i in range(len(s)):
    print(s[i],end=' ')
print()
for i in range(len(s)-1,-1,-1):
    print(s[i],end=' ')
print()
print('-ve indexes : ')
for i in range(-len(s),0):
    print(s[i],end=' ')
print()
for i in range(-1,-len(s)-1,-1):
    print(s[i],end=' ')

```

```

➤ please enter data : lalitha
+ve indexes:
l a l i t h a
a h t i l a l
-ve indexes :
l a l i t h a
a h t i l a l

```

```

num = 7
count = 0
for i in range(2,num):
    if num % i == 0:
        count = count + 1
else:
    if count == 0:
        print(num,'is a prime number')
    else:
        print(num,'is not a prime number')

```

```

➤ 7 is a prime number

```

```

for i in range(1,7):
    if i == 6:
        break
    print(i,end=' ')
else:
    print('Thank you')    # 1 2 3 4 5

```

```

➤ 1 2 3 4 5

```

```

num = input("Enter a number : ")
count = 0
if num.isdigit() == True:
    num = int(num)
    for i in range(2,num):
        if num % i == 0:
            count = count + 1
    else:
        if count == 0:
            print(num,'is a prime number')
        else:
            print(num,'is not a prime number')
else:
    print('Invalid data')

```

```

➤ Enter a number : 3.5
Invalid data

```

```

s = 'python'
for i in s:
    print(i,end=' ')


```

```

➤ p y t h o n


```

```
s = 'python'
for i in s:
    print(i,end=' ')
    continue
```

 p y t h o n

```
s = 'python'
for i in s:
    continue
    print(i,end=' ')
```

```
s = 'python'
for i in s:
    continue
    print(i,end=' ')
else:
    print(s)
```


 python

```
s = 'python'
for i in s:
    break
    print(i,end=' ')
else:
    print(s)
```


```
s = 'python'
for i in s:
    print(i,end=' ')
    break
else:
    print(s)
```

 p


```
s = 'python'
for i in s:
    print(i,end=' ')
    continue
    break
else:
    print(s)
```

 p y t h o n python

```
s = 'python'
for i in range(len(s)):
    print(i,s[i])
```

 0 p
1 y
2 t
3 h
4 o
5 n

```
s = 'python'
for i,j,k in enumerate(s):
    print(i,j)
```


ValueError Traceback (most recent call last)
 <ipython-input-22-3c043e4c4396> in <cell line: 2>()
 1 s = 'python'
----> 2 for i,j,k in enumerate(s):
 3 print(i,j)
ValueError: not enough values to unpack (expected 3, got 2)

Next steps: [Explain error](#)

```
s = 'python'
for index,value in enumerate(s):
    print(index,value)
```



```

0 p
1 y
2 t
3 h
4 o
5 n

```

```

s = range(1,10)
for index,num in enumerate(s):
    print(index,num)

```

```

0 1
1 2
2 3
3 4
4 5
5 6
6 7
7 8
8 9

```

```

for index,num in enumerate(range(20,31)):
    print(index,num)

```

```

0 20
1 21
2 22
3 23
4 24
5 25
6 26
7 27
8 28
9 29
10 30

```

```

s1 = 'python'
s2 = 'javascript'
for i in s1:
    print(i,end=' ')
for j in s2:
    print(j,end=' ')

```

```

p y t h o n j a v a s c r i p t

```

```

s1 = 'python'
s2 = 'javascript'
for ch1,ch2 in zip(s1,s2):
    print(ch1,ch2)

```

```

p j
y a
t v
h a
o s
n c

```

```

s1 = 'python'
s2 = 'javascript'
s3 = 'lalitha'
for ch1,ch2,ch3 in zip(s1,s2,s3):
    print(ch1,ch2,ch3)

```

```

p j l
y a a
t v l
h a i
o s t
n c h

```

```

s1 = 'python'
s2 = 'javascript'
s1_len = len(s1)
s2_len = len(s2)
dif = 0
if s1_len > s2_len:
    dif = s1_len - s2_len
    s2 = s2 + (' '*dif)
else:
    dif = s2_len - s1_len
    s1 = s1 + (' '*dif)

```