

Write step following code below

Step	a	b	sum	output
1	10			
2	10	5		
3	10	5	15	
4	10	5	15	15

```
demo.py > ...  
1  a = 10  
2  b = 5  
3  sum = a + b  
4  print(sum)
```

Example

Write step following code below

Step	a	b	output
1	10		
2	10	5	
3	10	5	10
4	10	5	b

```
main.py > ...  
1 a = 10  
2 b = 5  
3 print(a)  
4 print("b")
```

Write step following code below

Step	a	b	output
1	10		
2	10	10	
3	10	10	b

 main.py > ...

1 a = 10

2 b = a

3 print("b")

Write step following code below

Step	a	b	output
1	10		
2	10	10	
3	10	10	10

 main.py > ...

1 a = 10

2 b = a

3 print(b)

Write step following code below

STEP	a	a<10	Output
1	10		
2	10	False	
3	10		No



main.py > ...

```
1  a = 10
2  if a < 10:
3      print("Yes")
4  else:
5      print("No")
```

Write step following code below

step	a	a<=10	output
1	10		
2	10	True	
3	10		Yes

```
main.py > ...  
1     a = 10  
2     if a <= 10:  
3         print("Yes")  
4     else:  
5         print("No")
```

Write step following code below

step	a	a<=10	a==10	a>=10	Output
1	10				
2	10	True			
3	10				Yes



main.py > ...

```
1  a = 10
2  if a <= 10:
3      |   print("Yes")
4  elif a == 10:
5      |   print("No")
6  elif a >= 10:
7      |   print("Okay")
```

Write step following code below

Step	a	a<=10	a==10	a>=10	output
1	10				
2	10	True			
3	10				Yes
4	10		True		
5	10				No
6	10			True	
10	10				Okay



main.py > ...

```
1  a = 10
2  if a <= 10:
3      |   print("Yes")
4  if a == 10:
5      |   print("No")
6  if a >= 10:
7      |   print("Okay")
```


Step	a	b	a<10 and b>10	a==10 and b==5	a>=10 and b<=10	output
1	10					
2	10	5				
3	10	5	False			
4	10	5		True		
5	10	5				No
6	10	5			True	
7	10	5				Okay

Write step following code below



main.py > ...

```

1  a = 10
2  b = 5
3  if a < 10 and b > 10:
4      print("Yes")
5  elif a == 10 and b == 5:
6      print("No")
7  if a >= 10 and b <= 10:
8      print("Okay")

```

Step	a	b	a<10and b>10	a==10and b==5	a>=10 and b<=10	output
1	10					
2	10	5				
3	10	5	False			
4	10	5		True		
5	10	5				No

Write step following code below

```

python main.py > ...
1  a = 10
2  b = 5
3  if a < 10 and b > 10:
4      print("Yes")
5  elif a == 10 and b == 5:
6      print("No")
7  elif a >= 10 and b <= 10:
8      print("Okay")

```

Step	a	b	a<10 or b>5	a==10 or b==5	a>=10 or b<=10	output
1	10					
2	10	5				
3	10	5	False			
4	10	5		True		
5	10	5				No

Write step following code below



main.py > ...

```

1  a = 10
2  b = 5
3  ✓ if a < 10 or b > 5:
4      |     print("Yes")
5  ✓ elif a == 10 or b == 5:
6      |     print("No")
7  ✓ elif a >= 10 or b <= 10:
8      |     print("Okay")

```

Write step following code below

Step	a	b	a<10 and b>=5	a==10 or b==5	a>=10 or b<=10	output
1	10					
2	10	5				
3	10	5	True			
4	10	5				Yes
5	10	5		True		
6	10	5				No
7	10	5			True	
8	10	5				Okay

 main.py > ...

```
1 a = 10
```

```
2 b = 5
```

```
3 if a < 10 or b >= 5:
```

```
4     print("Yes")
```

```
5 elif a == 10 or b == 5:
```

```
6     print("No")
```

```
7 if a >= 10 or b <= 10:
```

```
8     print("Okay")
```

Write step following code below

Step	n1	n2	sum	output
1	3			
2	3	5		
3	3	5	3+5	
4	3	5	3+5	35

If user enter first : 3 and second 5



main.py > ...

```
1  n1 = input()
2  n2 = input()
3  sum = n1 + n2
4  print(sum)
```

Write step following code below

Step	n1	n2	sum	output
1	3			
2	3	5		
3	3	5	3+5	
4	3	5	3+5	8

If user enter first : 3 and second 5



main.py > [] n2

```
1  n1 = int(input())
2  n2 = int(input())
3  sum = n1 + n2
4  print(sum)
```

Write step following code below

step	n	i	output
1	3		
2	3	0	
3	3	0	3
4	3	1	
5	3	1	3
6	3	2	
7	3	2	3

If user enter : 3



main.py > [] i

```
1  n = int(input())
2  for i in range(n):
3      print(n)
```

Write step following code below

Step	i	n	sum	output
1		3		
2		3	0	
3	0	3	0	
4	0	3	0	
5	0	3	0	0
6	1	3	0	
7	1	3	1	
8	1	3	1	1
9	2	3	1	
10	2	3	2	
11	2	3	2	2

If user enter : 3

```
main.py > [i] i
1  n = int(input())
2  sum = 0
3  for i in range(n):
4      sum = sum + i
5      print(sum)
```


Write step following code below

Step	i	n	sum	output
1		2		
2		2	0	
3		2	0	
4	0	2	0	
5	0	2	0	0
6	1	2	1	
7	1	2	1	1


If user enter : 2

```
main.py > ...  
1  n = int(input())  
2  sum = 0  
3  ✓ for i in range(n):  
4      sum = sum + i  
5  print(sum)
```

Write step following code below

Step	i	j	k	i<j	output
1	0				
2	0	2			
3	0	2	3		
4	2	2	3		
5	3	2	3		
6	3	2	3	False	
7	3	2	3		I am here

 main.py X

 main.py > ...

```
1 i = 0
2 j = 2
3 k = 3
4 i = j
5 i = k
6 while i < j:
7     print("Hello, world")
8     i = i + 1
9 print("I am here")
```

step	i	j	k	i<j	Output
1	0				
2	0	2			
3	0	2	3		
4	0	2	3		
5	0	2	3	True	
6	0	2	3		Hello ,world
7	1	2	3		
8	1	2	3	True	
9	1	2	3		Hello, world
10	2	2	3		
11	2	2	3	False	
12	2	2	3		Hello world Hello world I am here

Write step following code below

```

main.py > [ⓧ] j
1   i = 0
2   j = 2
3   k = 3
4   j = k - 1
5   while i < j:
6       print("Hello, world")
7       i = i + 1
8   print("I am here")

```

Write step following code below

step	i	i<5	i>1	output
1	0			
2	0	True		
3	0		False	
4	1	True		
5	1		False	
6	2			
7	2	True		
8	2		True	
9	2			Hello world
10	3			
11	3	True		
12	3		True	
12	3			Hello world
14	4			
15	4	True		
16	4		True	
17	4			Hello world
18	5			
19	5	False		
20	5			Hello, world Hello, world Hello, world I am here



main.py > ...

```
1   i = 0
2   while i < 5:
3       if i > 1:
4           print("Hello, world")
5           i = i + 1
6   print("I am here")
```

Write step following code below



main.py > ...

```
1  i = 0
2  while i < 5:
3      if i > 1 and i < 4:
4          print("Hello, world")
5          i = i + 1
6  print("I am here")
```

Step	i	i<5	i>0 and i<4	Output
1	0			
2	0	True		
3	0		False	
4	1			
5	1	True		
6	1		False	
7	2			
8	2	True		
9	2		True	
10	2			Hello world
11	3			
12	3	True		
13	3		True	
14	3			Hello world
15	4			
16	4	True		
17	4		False	
18	5			
19	5	False		
20	5			Hello world Hello world I am here

Write step following code below

Step	i	i<5	i>1 and i<4	i>5	output
1	0				
2	0	True			
3	0		False		
4	1				
5	1	True			
6	1		False		
7	2				
8	2	True			
9	2		True		
10	2				Hello world
11	3				
12	3	True			
13	3		True		
14	3				Hello world
15	4				
16	4	True			
17	4		False		
18	5				
19	5	False			
20	5			False	
21	5				I am not here



main.py > ...

```
1  i = 0
2  while i < 5:
3      if i > 1 and i < 4:
4          print("Hello, world")
5          i = i + 1
6  if i > 5:
7      print("I am here")
8  else:
9      print("I am not here")
```

Step	i	result	i<5	i>1 and i<4	i==0	i>5	Output
1	0						
2	0	{}{}					
3	0	{}{}	True				
4	0	{}{}		False			
5	0	{}{}			True		
6	0	{}{}					Hello zero
7	1	{}{}					
8	1	{}{}	True				
9	1	{}{}		False			
10	1	{}{}			False		
11	2	{}{}					
11	2	{}{}	True				
12	2	{}{}		True			
13	2	{}{}					Hello world
14	2	{}{}			False		
15	3	{}{}					
16	3	{}{}	True				
17	3	{}{}		True			
18	3	{}{}					Hello world
19	3	{}{}			False		
20	4	{}{}					
21	4	{}{}	True				
22	4	{}{}		False			
23	4	{}{}			False		
24	5	{}{}					
25	5	{}{}	False				
26	5	{}{}				False	
27	5	{}{}					I am here

Write step following code below



main.py > ...

```

1  i = 0
2  while i < 5:
3      if i > 1 and i < 4:
4          print("Hello, world")
5      if i == 0:
6          print("Hello, zero")
7      i = i + 1
8  if i > 5:
9      print("I am here")
10 else:
11     print("I am not here")

```

Write step following code below

Step	i	result	i<5	i>1 and i<4	i==0	output
1	0					
2	0	⋮				
3	0	⋮	True			
4	0	⋮		False		
5	0	⋮			True	
6	0	Hello zero				
7	1	⋮				
8	1	⋮	True			
9	1	⋮		False		
10	1	⋮			False	
11	2	⋮				
12	2	⋮	True			
13	2	⋮		True		
14	2	Hello world				
15	2	⋮			False	
16	3	⋮				
17	3	⋮	True			
18	3	⋮		True		
19	3	⋮				
20	3	Hello world			False	
21	4					
22	4		True			
23	4			False		
24	4				False	
25	5		False			
26	5	⋮	False			



main.py > ...

```
1 i = 0
2 result = ""
3 while i < 5:
4     if i > 1 and i < 4:
5         result = "Hello, world"
6     if i == 0:
7         result = "Hello, zero"
8     i = i + 1
9 print(result)
```


Step	i	i<5	i>1 and i<4	i==0	Result	
1	0					
2	0				""	
3	0	True			""	
4	0		False		""	
5	0			True	""	
6	0				Hello, zero	
7	1					
8	1	True				
9	1		False			
10	1			False		
11	2					
12	2	True				
13	2		True			
14	2				Hello zero Hello world	
15	2			False		
16	3					
17	3	True				
18	3		True			
19	3				Hello zero Hello world Hello world	
20	3			False		
21	4					
22	4	True				
23	4		False			
24	4			False		
25	5					
26	5	False				

Write step following code below



main.py > ...

```

1  i = 0
2  result = ""
3  while i < 5:
4      if i > 1 and i < 4:
5          result = result + "Hello, world"
6      if i == 0:
7          result = result + "Hello, zero"
8      i = i + 1
9  print(result)

```

Write step following code below

Step	a	sum	output
1	10		
2	10	0	
3	10	10	
4	10	10	10



main.py > [a] a

```
1  a = 10
2  sum = 0
3  sum += a # sum += a mean sum = sum + a
4  print(sum)
```

Step	i	i==0	i>=4 and i<=7	i>=1 and i<=3	output
1	0				
2	0	True			
3	0				Hello
4	1				
5	1	False			
6	1		False		
7	1			True	
8	1				OKay
9	2				
10	2	False			
11	2		False		
12	2			True	
13	2				Okay
14	3				
15	3	False			
16	3		False		
17	3			True	
18	3				OK
19	4				
20	4	False			
10	2		True		

Write step following code below

```

main.py > [🔍] i
1   for i in range(7):
2       if i == 0:
3           print("Hello")
4       elif i >= 4 and i <=7:
5           print("Okay")
6       elif i >=1 and i <= 3:
7           print("No!")

```

Write step following code below



main.py > [0] i

```
1  number = 0
2  for i in range(7):
3      if i == 0:
4          number += 1
5      elif i >= 4 and i <= 7:
6          number += 2
7      elif i >= 1 and i <= 3:
8          number += 3
9  print(number)
```

Step	i	number	i==0	i>=4 and i<=7	i>=1 and i<=3	Output
1		0				
2	0	0				
3	0	0	True			
4	0	1				
5	1	1				
6	1	1			True	
7	1	4				
8	2	4				
9	2	4			True	
10	2	7				
11	3	7				
12	3	7			True	
13	3	10				
14	4	10				
15	4	10		True		
16	4	12				
17	5	12		True		
18	5	14				
19	6	14				
20	6	14		True		
21	6	16				
22	6	16				16