

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	a	
3	10	a	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	a	
3	10	a	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	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	
7	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")
```


Write step following code below

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



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")
```

Write step following code below

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

```
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")
```

Write step following code below

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

```
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 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			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	35	
4	3	5	35	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	8	
4	3	5	8	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 > [0] 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	3	
11	2	3	3	3

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	0	2	0	
4	0	2	0	
5	1	2	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")
```

Write step following code below

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		I am here



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")
```

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

Write step following code below

```

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")

```

Step	i	i<5	i>1 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			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>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	True			
16	4		False		
17	5				
18	5	False			
19	5			False	
20	5				I am not 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  if i > 5:
7      print("I am here")
8  else:
9      print("I am not here")

```

Step	i	i<5	i>1and i<4	i==0	i>5	output
1	0					
2	0	True				
3	0	True	False			
4	0	True		True		
5	0	True				Hello, zero
6	1					
7	1	True				
8	1	True	False			
9	1	True		False		
10	2					
11	2	True				
12	2	Ture		True		
13	2	True		True		Hello, world
14	2	True		False		
15	3					
16	3	True				
17	3	True	True			
18	3	True	True			Hello, world
19	3	True		False		
20	4					
21	4	True				
22	4	True	False			
23	4	True	False			
24	5					
25	5	False				
26	5				False	
27	5					I am not 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")

```

Step	i	result	i<5	i >4 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	Hello, zero				
8	1	Hello, zero	True			
9	1	Hello, zero		False		
10	1	Hello, zero			False	
11	2	Hello, zero				
12	2	Helo, zero	True			
13	2	Hello, zero		True		
14	2	Hello, world				
15	2	Hello, world	True		False	
16	3	Hello, world				
17	3	Hello, world	True			
18	3	Hello, world		True		
19	3	Hello, world				
20	3	Hello, wold			False	
21	4	Hello, world				
22	4	Hello, world	True			
23	4	Hello, world		False		
24	4	Hello, world			False	
25	5	Hello, world				
26	5	Hello, world	False			
27	5	Hello, world				Hello, world

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 = "Hello, world"
6      if i == 0:
7          result = "Hello, zero"
8      i = i + 1
9  print(result)

```


Step	i	result	i<5	i >4 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	Hello, zero				
8	1	Hello, zero	True			
9	1	Hello, zero		False		
10	1	Hello, zero			False	
11	2	Hello, zero				
12	2	Helo, zero	True			
13	2	Hello, zero		True		
14	2	Hello, zero Hello, world				
15	2	Hello, zero Hello, world	True		False	
16	3	Hello, zero Hello, world				
17	3	Hello, zero Hello, world	True			
18	3	Hello, zero Hello, world		True		
19	3	Hello, zero Hello, world Hello, wold				
20	3	Hello, zero Hello, world Hello, wold			False	
21	4	Hello, zero Hello, world Hello, wold				
22	4	Hello, zero Hello, world Hello, wold	True			
23	4	Hello, zero Hello, world Hello, wold		False		
24	4	Hello, zero Hello, world Hello, wold			False	
25	5	Hello, zero Hello, world Hello, wold				
26	5	Hello, zero Hello, world Hello, wold	False			
27	5	Hello, zero Hello, world Hello, wold				Hello, zero Hello, world Hello, world

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]

```
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	False			
5	1		False		
6	1			True	
7	1				No
8	2	False			
9	2		False		
10	2			True	
11	2				No
12	3	False			
13	3		False		
14	3			True	
15	3				No
16	4	False			
17	4		True		
18	4				Okay
19	5	False			
20	5		True		
21	5				Okay
22	6	Flase			
23	6		True		
24	6				Okay

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!")

```

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	False			
6	1	1		False		
7	1	1			True	
8	1	4				
9	2	4	False			
10	2	4		False		
11	2	4			True	
12	2	7				
13	3	7	False			
14	3	7		False		
15	3	7			True	
16	3	10				
17	4	10	False			
18	4	10		True		
19	4	12				
20	5	12	False			
21	5	12		True		
22	5	14				
23	6	14	False			
24	6	14		True		
25	6	16				
26	6	16				16

Write step following code below

```

main.py > [🔍] 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)

```