```
In [1]:  a=10
```

```
In [2]:  b=8.5
```

```
In [3]:  a
Out[3]:  10
```

```
In [4]:  b
Out[4]:  8.5
```

```
In [5]:  10+20-30*2
Out[5]:  -30
```

```
In [6]:  str="Hello Welcome"
```

```
In [7]:  str
Out[7]:  'Hello Welcome'
```

```
In [8]:  str[0]
Out[8]:  'H'
```

```
In [9]:  str[12]
Out[9]:  'e'
```

```
In [10]:  str[-1]
Out[10]:  'e'
```

```
In [12]:  str[0:5]
Out[12]:  'Hello'
```

```
In [13]:  str
Out[13]:  'Hello Welcome'
```

```
In [18]:  str[6:13]
Out[18]:  'Welcome'
```

str

```
In [19]:  str[-7::]
Out[19]:  'Welcome'
```

```
In [1]:  str="hello welcome you all"
```

```
In [2]:  str
Out[2]:  'hello welcome you all'
```

```
In [3]:  print(str)
         hello welcome you all
```

```
In [4]:  str*2
Out[4]:  'hello welcome you allhello welcome you all'
```

```
In [5]:  str*4
Out[5]:  'hello welcome you allhello welcome you allhello welcome you allhello welcome you all'
```

```
In [6]:  len(str)
Out[6]:  21
```

```
In [10]:  str.find('Hel')
Out[10]:  -1
```

```
In [8]:  str.find('hello')

Out[8]:  0

In [9]:  str

Out[9]:  'hello welcome you all'

In [11]:  str.find('come')

Out[11]:  9

In [12]:  str.find('welcome')

Out[12]:  6

In [13]:  str.find('cse')

Out[13]:  -1

In [14]:  str

Out[14]:  'hello welcome you all'

In [15]:  str.upper()

Out[15]:  'HELLO WELCOME YOU ALL'

In [16]:  str.lower()

Out[16]:  'hello welcome you all'

In [17]:  str[-3:]

Out[17]:  'all'

In [19]:  str[::2]

Out[19]:  'hlowloeyual'

In [21]:  str in['hello']

Out[21]:  False

In [22]:  str

Out[22]:  'hello welcome you all'

In [23]:  'Hello'in str

Out[23]:  False

In [24]:  'hello'in str

Out[24]:  True

In [26]:  str[2:len(str)-4+4-4+2-3*2-15]

Out[26]:  'llo welcome you a'

In [29]:  for i in range(1,25):
              print(i)
```

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

In [32]:
```python
for i in range(1,25,2):
    print(i)
```

```
1
3
5
7
9
11
13
15
17
19
21
23
```

In [33]:
```python
a=4
```

In [40]:
```python
for i in range(1,25,a-2+4-3):
    print(i)
```

```
1
4
7
10
13
16
19
22
```

In [41]:
```python
for i in range(5,100,5):
    print(i)
```

```
5
10
15
20
25
30
35
40
45
50
55
60
65
70
75
80
85
90
95
```

In [42]:
```python
list1=[12,15,39.54,'Hello',[12,39,25,[34,'Welcome',55],'CSE']]
```

In [43]:
```python
print(list1)
```

```
[12, 15, 39.54, 'Hello', [12, 39, 25, [34, 'Welcome', 55], 'CSE']]
```

In [44]:
```python
list1[0]
```

Out[44]: 12

In [45]:
```python
list1[3]
```

```
Out[45]:  'Hello'

In [68]:  list1[4][3][1][3:]

Out[68]:  'come'

In [54]:  list1

Out[54]:  [12, 15, 39.54, 'Hello', [12, 39, 25, [34, 'Welcome', 55], 'CSE']]

In [59]:  list1[4][4][1:]

Out[59]:  'SE'
```

str

```
In [60]:  str

Out[60]:  'hello welcome you all'

In [61]:  str1='CSE'

In [62]:  str1

Out[62]:  'CSE'

In [66]:  str+' '+str1

Out[66]:  'hello welcome you all CSE'

In [65]:  str.replace("welcome","come")

Out[65]:  'hello come you all'

In [67]:  list1

Out[67]:  [12, 15, 39.54, 'Hello', [12, 39, 25, [34, 'Welcome', 55], 'CSE']]

In [73]:  list1[4][3][1]='come'

In [74]:  list1[4][3][1]

Out[74]:  'come'

In [75]:  list1

Out[75]:  [12, 15, 39.54, 'Hello', [12, 39, 25, [34, 'come', 55], 'CSE']]

In [78]:  list1.insert(4,'welcome')
```

list1

```
In [79]:  list1

Out[79]:  [12, 15, 39.54, 'Hello', 'welcome', [12, 39, 25, [34, 'come', 55], 'CSE']]

In [81]:  list1.remove('welcome')

In [82]:  list1

Out[82]:  [12, 15, 39.54, 'Hello', [12, 39, 25, [34, 'come', 55], 'CSE']]

In [83]:  list1.remove(12)

In [84]:  list1

Out[84]:  [15, 39.54, 'Hello', [12, 39, 25, [34, 'come', 55], 'CSE']]

In [87]:  list1[1]

Out[87]:  39.54

In [88]:  str

Out[88]:  'hello welcome you all'
```

```
In [92]:  str.split(' ',3)

Out[92]:  ['hello', 'welcome', 'you', 'all']

In [94]:  dict={'name':"Nihanth Sai",'Address':"Nellore",'Mobile No':9014157901}

In [95]:  dict

Out[95]:  {'name': 'Nihanth Sai', 'Address': 'Nellore', 'Mobile No': 9014157901}

In [98]:  dict['name']

Out[98]:  'Nihanth Sai'

In [99]:  dict['Address']

Out[99]:  'Nellore'

In [102…  dict['Mobile No']

Out[102]:  9014157901

In [103…  len(dict)

Out[103]:  3

In [104…  dict1=dict.copy

In [105…  dict

Out[105]:  {'name': 'Nihanth Sai', 'Address': 'Nellore', 'Mobile No': 9014157901}

In [106…  dict1

Out[106]:  <function dict.copy>

In [107…  dict.values()

Out[107]:  dict_values(['Nihanth Sai', 'Nellore', 9014157901])

In [108…  dict.keys()

Out[108]:  dict_keys(['name', 'Address', 'Mobile No'])

In [ ]:
```