In [1]:
```python
1  x=100
2  print(x)
```

100

In [2]:
```python
1  x=100
2  print(x)
3  x=150
4  print(x)
```

100
150

In [6]:
```python
1  a
2  print(a)
```

```
---------------------------------------------------------------------------
NameError                                  Traceback (most recent call last)
<ipython-input-6-9ed039d26cb7> in <module>
----> 1 a
      2 print(a)

NameError: name 'a' is not defined
```

In [ ]:
```python
1  #define a varaible without assigng any value
```

In [14]:
```python
1  b
2  print(b)
```

None

In [15]:
```python
1  c=100
2  print(c)
3  c=100.0
4  print(c)
```

100
100.0

In [ ]:
```python
1  # date : 30 sept 2023
```

In [ ]:
```python
1  # id() and type()
```

In [3]:
```python
1  x=100
2  print(type(x))
3  print(id(x))
4  x=150.0
5  print(type(x))
6  print(id(x))
```

```
<class 'int'>
140736388543360
<class 'float'>
2570053511312
```

In [5]:
```python
1  x=100
2  X=x+100
3  print(x)
4  print(X)
5  print(id(x))
6  print(id(X))
```

```
100
200
140736388543360
140736388546560
```

In [7]:
```python
1  x=100
2  X=X+100
3  print(x)
4  print(X)
5  print(id(x))
6  print(id(X))
```

```
100
400
140736388543360
2570053512496
```

In [8]:
```python
1  z=100
2  Z=Z+100
```

```
---------------------------------------------------------------------------
NameError                                 Traceback (most recent call last)
<ipython-input-8-31f2ece233e9> in <module>
      1 z=100
----> 2 Z=Z+100

NameError: name 'Z' is not defined
```

In [ ]:
```python
1
```

In [ ]:
```python
1
```

In [ ]:   1

In [ ]:   1

In [ ]:   1