In [1]:
```python
def greeting(name):
    print("Hello "+ name)
greeting("arsal")
```

Hello arsal

In [2]:
```python
import greet
```

In [3]:
```python
def greeting(name):
    print("Hello "+ name)
greeting("arsal")
```

Hello arsal

In [5]:
```python
greet.greeting("aaa")
```

Hello aaa

In [6]:
```python
from greet import greeting
```

In [7]:
```python
greeting("rrr")
```

Hello rrr

In [8]:
```python
import greet as g
```

In [9]:
```python
g.greeting("arsllll")
```

Hello arsllll

In [10]:
```python
import numpy
```

In [11]:
```python
arry = numpy.array([1,2,3,4,5])
print(arry)
```

[1 2 3 4 5]

In [17]:
```python
import numpy as np
```

In [18]:
```python
arry=np.array([5,4,3,2,1])
print (arry)
```

[5 4 3 2 1]

In [19]:
```python
import numpy as np
```

In [20]:
```python
a=np.array(["arsal","hamzx","kumail","ali"])
print(a.dtype)
b=np.array(["12","22","34","55"])
print(b.dtype)
```

```
<U6
<U2
```

In [22]:
```python
c=np.array([1,2,3,4,5]),dtype="i")
print(c.dtype)
```

```
  File "<ipython-input-22-a9a0d8bd83dc>", line 1
    c=np.array([1,2,3,4,5]),dtype="i")
                                     ^
SyntaxError: unmatched ')'
```

In [33]:
```python
d = np.array(["1.5","2.5","9.8","5.8"] , dtype="f")
print(d)
```

```
[1.5 2.5 9.6 5.8]
```

In [35]:
```python
e=d.astype(int)
print(e)
```

```
[1 2 9 5]
```

In [36]:
```python
f=d.astype(bool)
print(f)
```

```
[ True  True  True  True]
```

In [37]:
```python
f=d.copy()
f[0]=34
print(d)
print(f)
```

```
[1.5 2.5 9.6 5.8]
[34.   2.5  9.6  5.8]
```

In [38]:
```python
f=d.view()
f[0]=34
print(d)
print(f)
```

```
[34.   2.5  9.6  5.8]
[34.   2.5  9.6  5.8]
```

In [39]:
```python
f=d
```

In [40]:
```python
print(e.base)
print(f.base)
print(d.base)
```

None
None
None

In [15]:
```python
k=np.array([[2,3,8],
            [3,5,7],
            [6,8,9]])
print(k.shape)
```

```
---------------------------------------------------------------------------
NameError                                 Traceback (most recent call last)
<ipython-input-15-1842eaba63b4> in <module>
----> 1 k=np.array([[2,3,8],
      2             [3,5,7],
      3             [6,8,9]])
      4 print(k.shape)

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

In [9]:
```python
m = np.array([12,4,5,7,8,9,6,4,])
l = m.reshape(2,2,2)
print(m)
print(l)
print(m.shape)
print(m.ndim)
```

```
---------------------------------------------------------------------------
NameError                                 Traceback (most recent call last)
<ipython-input-9-f6f039d8a4a9> in <module>
----> 1 m = np.array([12,4,5,7,8,9,6,4,])
      2 l = m.reshape(2,2,2)
      3 print(m)
      4 print(l)
      5 print(m.shape)

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

In [8]:
```python
m = np.array([12,4,5,7,8,9,6,4,33])
l = m.reshape(3,3)
print(m)
print(l)
print(m.shape)
print(m.ndim)
```

```
---------------------------------------------------------------------------
NameError                                 Traceback (most recent call last)
<ipython-input-8-a69cd6902110> in <module>
----> 1 m = np.array([12,4,5,7,8,9,6,4,33])
      2 l = m.reshape(3,3)
      3 print(m)
      4 print(l)
      5 print(m.shape)

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

In [14]:
```python
m = np.array([12,4,5,7,8,9,6,4])
l = m.reshape(2,2,2)
w=l.reshape(-1)
print(m)
print(l)
print(w)
print(l.shape)
print(l.ndim)
print(w.shape)
print(w.ndim)
```

```
---------------------------------------------------------------------------
NameError                                 Traceback (most recent call last)
<ipython-input-14-4483a04cbd7f> in <module>
----> 1 m = np.array([12,4,5,7,8,9,6,4])
      2 l = m.reshape(2,2,2)
      3 w=l.reshape(-1)
      4 print(m)
      5 print(l)

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

In [13]:
```python
z=np.array([range(100)])
r=z.reshape(5,5,4)
print(r)
```

```
---------------------------------------------------------------------------
NameError                                 Traceback (most recent call last)
<ipython-input-13-3f1dabab4dd3> in <module>
----> 1 z=np.array([range(100)])
      2 r=z.reshape(5,5,4)
      3 print(r)

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

In [ ]: