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

```
Hello arsal
```

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

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

```
Hello arsal
```

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

```
Hello aaa
```

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

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

```
Hello rrr
```

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

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

```
Hello arslllll
```

In [12]:
```
import numpy
```

In [14]:
```
arry = numpy.array([1,2,3,4,5])
print(arry)
```

```
[1 2 3 4 5]
```

In [15]:
```
import numpy as np
```

In [16]:
```
arry=np.array([5,4,3,2,1])
print (arry)
```

```
[5 4 3 2 1]
```

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

In [18]:
```
a=np.array(["arsal","hamzx","kumail","ali"])
print(a.dtype)
b=np.array(["12","22","34","55"])
print(b.dtype)
```

```
<U6
<U2
```

In [24]:
```
c=np.array([1,2,3,4,5]),dtype="i")
print(c.dtype)
```

```
  File "<ipython-input-24-a9a0d8bd83dc>", line 1
    c=np.array([1,2,3,4,5]),dtype="i")
                                     ^
SyntaxError: unmatched ')'
```

In [33]:
```
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]:
```
e=d.astype(int)
print(e)
```

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

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

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

In [37]:
```
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]:
```
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]:
```
f=d
```

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

```
None
None
None
```

In [47]:
```
k=np.array([[2,3,8],
            [3,5,7],
            [6,8,9]])
print(k.shape)
```

```
(3, 3)
```

In [64]:
```
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)
```

```
[12  4  5  7  8  9  6  4]
[[[12  4]
  [ 5  7]]

 [[ 8  9]
  [ 6  4]]]
(8,)
1
```

In [65]:
```
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)
```

```
[12  4  5  7  8  9  6  4 33]
[[12  4  5]
 [ 7  8  9]
 [ 6  4 33]]
(9,)
1
```

In [68]:
```
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)
```

```
[12  4  5  7  8  9  6  4]
[[[12  4]
  [ 5  7]]

 [[ 8  9]
  [ 6  4]]]
[12  4  5  7  8  9  6  4]
(2, 2, 2)
3
(8,)
1
```

In [80]:
```
z=np.array([range(100)])
r=z.reshape(5,5,4)



print(r)
```

```
[[[ 0  1  2  3]
  [ 4  5  6  7]
  [ 8  9 10 11]
  [12 13 14 15]
  [16 17 18 19]]

 [[20 21 22 23]
  [24 25 26 27]
  [28 29 30 31]
  [32 33 34 35]
  [36 37 38 39]]

 [[40 41 42 43]
  [44 45 46 47]
  [48 49 50 51]
  [52 53 54 55]
  [56 57 58 59]]

 [[60 61 62 63]
  [64 65 66 67]
  [68 69 70 71]
  [72 73 74 75]
  [76 77 78 79]]

 [[80 81 82 83]
  [84 85 86 87]
  [88 89 90 91]
  [92 93 94 95]
  [96 97 98 99]]]
```

In [ ]: