In [1]:
```
range(20,31)
```

Out[1]:
```
range(20, 31)
```

In [3]:
```
l=list(range(20,31))
```

In [4]:
```
l
```

Out[4]:
```
[20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30]
```

In [5]:
```
len(l)
```

Out[5]:
```
11
```

In [6]:
```
#Built In Functions were discussed above
```

In [7]:
```
#package starts here
```

In [8]:
```
#a module is a simple file containing of data,function and statments. putting modu
#useful because of the ability to import the module functionality in your code.
```

In [9]:
```
#a package is a complex manner of combining all the modules into one ssingle bloc
```

In [10]:
```
#1. Find package 2. Install package 3. Import module from Package
```

In [11]:
```
#arrays in Python
```

In [12]:
```
l=[1,2,3,4,5,6,7]
```

In [13]:
```
l
```

Out[13]:
```
[1, 2, 3, 4, 5, 6, 7]
```

In [14]:
```
l.extend("ARRAY")
```

In [17]:
```
#python has 2 types of array:- 1. Built in core of python known as array arrays 2
```

In [18]:
```
import numpy as np
```

In [19]:
```
np.array(l)
```

Out[19]:
```
array(['1', '2', '3', '4', '5', '6', '7', 'A', 'R', 'R', 'A', 'Y'],
      dtype='<U11')
```

In [20]:
```
a=np.array(l)
```

In [21]:
```
a
```

Out[21]:
```
array(['1', '2', '3', '4', '5', '6', '7', 'A', 'R', 'R', 'A', 'Y'],
      dtype='<U11')
```

In [22]:
```
#we dont you array because we cant have array of mixed data type
```

In [23]:
```
l1=[1,2,3,4,5]
```

In [24]:
```
a1=np.array(l1)
```

In [25]:
```
a1
```

Out[25]:
```
array([1, 2, 3, 4, 5])
```

In [26]:
```
l.pop()
```

Out[26]:
```
'Y'
```

In [27]:
```
l
```

Out[27]:
```
[1, 2, 3, 4, 5, 6, 7, 'A', 'R', 'R', 'A']
```

In [32]:
```
a1.all()#array has multiple functions available as compared to lists
```

Out[32]:
```
True
```

In [ ]:
```

```