

# msd1a

November 22, 2024

[ ]:

[ ]: *List*

```
[36]: a = [1, 2, 3, 4, 5]
      b = ['msdhoni', 'advait', 'srk']
      c = [3, 'advait', 3.14]

      print(a)
      print(b)
      print(c)
```

```
[1, 2, 3, 4, 5]
['msdhoni', 'advait', 'srk']
[3, 'advait', 3.14]
```

```
[37]: a = list((1, 2, 3, 'advait'))

      print(a)
```

```
[1, 2, 3, 'advait']
```

```
[38]: a = [2] * 5
      b = [3] * 7

      print(a)
      print(b)
```

```
[2, 2, 2, 2, 2]
[3, 3, 3, 3, 3, 3, 3]
```

```
[40]: a = [1, 2, 3, 4, 5]

      print(a[0])
      print(a[-1])
```

```
1
5
```

```
[42]: a = []  
  
a.append(7)  
print(a)  
  
a.insert(0, 2)  
print(a)  
  
a.extend([3, 4, 5])  
print(a)
```

```
[7]  
[2, 7]  
[2, 7, 3, 4, 5]
```

```
[50]: a = [1, 2, 3, 4, 5]  
  
a[1] = 7  
print(a)
```

```
[1, 7, 3, 4, 5]
```

```
[51]: a = [1, 2, 3, 4, 5]  
  
a.remove(3)  
print(a)
```

```
[1, 2, 4, 5]
```

```
[ ]: #Tuple
```

```
[45]: t = (1, 2, 3)  
  
print(t)  
print(type(t))
```

```
(1, 2, 3)  
<class 'tuple'>
```

```
[46]: t = (1, 2, 3, 4, 5)  
  
print(t[1])  
print(t[4])
```

```
2  
5
```

```
[49]: t = (1, 2, 3)
```

```
print(t[-1])
print(t[-2])
print(t[-3])
```

```
3
2
1
```

```
[52]: t1 = (1, 2, 3)
      t2 = ('advait', 'nathe')
```

```
print(t1 + t2)
```

```
(1, 2, 3, 'advait', 'nathe')
```

```
[53]: t1 = (1, 2, 3)
      t2 = ('advait', 'nathe')
```

```
t3 = (t1, t2)
print(t3)
```

```
((1, 2, 3), ('advait', 'nathe'))
```

```
[57]: t = ('advait')*3
      print(t)
```

```
advaitadvaitadvait
```

```
[58]: t = ('advait', 'nathe')
      print(len(t))
```

```
2
```

```
[ ]: #Dictionaries
```

```
[59]: d = {1: 'advait', 2: 'mahesh', 3: 'nathe'}
      print(d)
```

```
{1: 'advait', 2: 'mahesh', 3: 'nathe'}
```

```
[63]: d = {}
      print(d)

      d[0] = 'advait'
      d[2] = 'nathe'
      d[3] = 3
```

```
print(d)
```

```
{}  
{0: 'advait', 2: 'nathe', 3: 3}
```

```
[64]: d = {1: 'ORANGE', 'name': 'advait', 3: 'GREEN'}
```

```
print(d['name'])  
print(d[1])
```

```
advait  
ORANGE
```

```
[65]: d = {'Dict1': {1: 'ORANGE'}, 'Dict2': {'Name': 'Advait'}}
```

```
print(d['Dict1'])  
print(d['Dict1'][1])  
print(d['Dict2']['Name'])
```

```
{1: 'ORANGE'}  
ORANGE  
Advait
```

```
[66]: d1 = {1: "msdhoni", 2: "sonunigam", 3: "srk", 4: "advait"}
```

```
d1.clear()  
print(d1)
```

```
{}
```

```
[ ]:
```