



A.Y. 2022-2023

**Subject: Python**

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### **Experiment No. 03**

**Aim: To implement various kinds of functions in Python.**

**Code:**

#### **Tuple**

```
tup = ('apple', 'banana', 'cherry', 24, 656, True, 'apple')
print(len(tup))
print(tup.index('apple'))
print(tup.count('apple'))
st = (2,5,9,3,88,14,4,1,10,111,6,8,7,-27)
aft = sorted(st)
print('Sorted tuple: ', aft)
print(max(st))
print(min(st))
print(sum(st))
```

```
PS C:\Users\devan\OneDrive\Desktop\Python Codes> python -u "c:\Us
7
0
2
Sorted tuple:  [-27, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 14, 88, 111]
111
-27
241
```

#### **Set**

```
myset = {1, 56, 99, 32, 'were', 'of', 'r', 'u' }
print(myset)
myset.add('save')
print(myset)
myset.discard('of')
myset.discard(6)
print(myset)
myset.pop()
print(myset)
myset.remove(1)
print(myset)
myset.clear()
print(myset)
```



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```
PS C:\Users\devan\OneDrive\Desktop\Python Codes>
{32, 1, 99, 'r', 'u', 'of', 'were', 56}
{32, 1, 99, 'r', 'u', 'of', 'were', 'save', 56}
{32, 1, 99, 'r', 'u', 'were', 'save', 56}
{1, 99, 'r', 'u', 'were', 'save', 56}
{99, 'r', 'u', 'were', 'save', 56}
set()
```

### Dictionary

```
dict = {1:'a', 2:'b', 3:'c', 4:'d', 5:'e'}
dicta = dict.copy()
print(dicta)
dict3 = (1,2,4)
print(dict.fromkeys(dict3,'as'))
print('Key 3 has value: ', dict.get(3))
dict.pop(2)
print(dict)
dict.clear()
print(dict)
```

```
PS C:\Users\devan\OneDrive\Desktop\Python
{1: 'a', 2: 'b', 3: 'c', 4: 'd', 5: 'e'}
{1: 'as', 2: 'as', 4: 'as'}
Key 3 has value: c
{1: 'a', 3: 'c', 4: 'd', 5: 'e'}
{}
```

### Anonymous Function

```
a=int(input('Enter a number:'))
b=int(input('Enter a number:'))
maximum = lambda a,b:a if a> b else b
print(f'{maximum(a,b)} is a maximum number')
```

```
PS C:\Users\devan\OneDrive\
Enter a number:6
Enter a number:9
9 is a maximum number
```