

Information & Communication Technology

Subject: PWP -01CT1309

## Lab 6

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**Date :-** 31-07-2023

**Enrollment No :-** 92200133030

CO1: To write, test, and debug simple Python programs

CO2: To implement Python programs with conditional, loops and functions

## Task 1:- Accessing The Member of Insider List

## **Python Code:**

```
tup1 = (1,3,'5',[6,'7',8,True],8)
print(tup1[3][1])
```

## **Output:**

```
PS D:\Aryan\Semester - 3\Programming With Python\Lab Manual\Lab -5> d:; b -5'; & 'D:\python.exe' 'c:\Users\abc\.vscode\extensions\ms-python.pythonylauncher' '50232' '--' 'D:\Aryan\Semester - 3\Programming With Python\I 7
PS D:\Aryan\Semester - 3\Programming With Python\Lab Manual\Lab -5>
```

## Task 2:- Performing The Operation On Dictionary.

## **Python Code:**

```
dic1 = {'A' : 65,'B' : {'A' : 35 , 'B' : 54} ,'C' : 67}

print(dic1['A'])

print(dic1['B']['B'])

fruit = {'Apple':20,'Mango' : 23}

fruit1 = {'Grpares' :25 , 'Banana' : 35}

mix = fruit.update(fruit1)

print(fruit)

fruit.pop('Banana')

print(fruit)
```



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## **Output:**

```
PS D:\Aryan\Semester - 3\Programming With Python\Lab Manual\Lab -5> d:;
b -5'; & 'D:\python.exe' 'c:\Users\abc\.vscode\extensions\ms-python.pytho
y\launcher' '50394' '--' 'D:\Aryan\Semester - 3\Programming With Python\L
65
54
{'Apple': 20, 'Mango': 23, 'Grpares': 25, 'Banana': 35}
{'Apple': 20, 'Mango': 23, 'Grpares': 25}
18
11
15
PS D:\Aryan\Semester - 3\Programming With Python\Lab Manual\Lab -5>
```

## Task 3:- Performing The Operation On Sets.

## **Python Code:**

```
set1 = {1,1,3,"4",5,6}
print(set1)
s1 = {1,2,3,4,5,6}
s2 = {1,2,4,6,7,9}
print(s1.union(s2))
print(s1.intersection(s2))
```

## **Output:**

```
PS D:\Aryan\Semester - 3\Programming With Python\Lab Manual\Lab -5> d:;
b -5'; & 'D:\python.exe' 'c:\Users\abc\.vscode\extensions\ms-python.pytho
y\launcher' '50423' '--' 'D:\Aryan\Semester - 3\Programming With Python\I
{1, 3, 5, 6, '4'}
{1, 2, 3, 4, 5, 6, 7, 9}
{1, 2, 4, 6}
PS D:\Aryan\Semester - 3\Programming With Python\Lab Manual\Lab -5>
```

## Task 4:- Implementing Different Types of Number System.

## **Python Code:**

```
print(0x12)
print(0o13)
print(0b1111)
```

```
18
11
15
```



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## **Task 5:- Arithmetic Operators**

# **Python Code:** X = 5 Y = 2

print(X + Y)

print(X - Y)

print(X\*Y)

print(X / Y)

print(X//Y)

print(X%Y)

 $print(X^{**}Y)$ 

## **Output:**

```
PS D:\Aryan\Semester - 3\Programming With Python\Lab Manual\Lab -5> & 'D:\python.exe' -2023.14.0\pythonFiles\lib\python\debugpy\adapter/../..\debugpy\launcher' '50212' '--' b Manual\Lab -5\31-07-2023 LAB-6.py' 7 3 10 2.5 2 1 25 PS D:\Aryan\Semester - 3\Programming With Python\Lab Manual\Lab -5>
```

## **Task 6:- Logical Operators**

## **Python Code:**

```
X = 56

Y = 43

print(X > 50 and Y < 50)

print(X > 50 or Y > 50)

print(not(X < 50))
```

```
PS D:\Aryan\Semester - 3\Programming With Python\Lab Manual\Lab -5> d:;
b -5'; & 'D:\python.exe' 'c:\Users\abc\.vscode\extensions\ms-python.pytho
y\launcher' '50273' '--' 'D:\Aryan\Semester - 3\Programming With Python\L
True
True
True
PS D:\Aryan\Semester - 3\Programming With Python\Lab Manual\Lab -5>
```



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# **Task 7:- Identity Operator**

## **Python Code:**

A = [1,2,3]

B = [1,2,3]

C = A

print(A is B)

print(A is C)

## **Output:**

```
PS D:\Aryan\Semester - 3\Programming With Python\Lab Manual\Lab -5> d:; b -5'; & 'D:\python.exe' 'c:\Users\abc\.vscode\extensions\ms-python.python\lab y\launcher' '50348' '--' 'D:\Aryan\Semester - 3\Programming With Python\lab False
True
PS D:\Aryan\Semester - 3\Programming With Python\Lab Manual\Lab -5>
```

## **Task 8:- Member Operator**

## **Python Code:**

A = 2

B = [1,2,3]

print(A in B)

print(A not in B)

## **Output:**

```
PS D:\Aryan\Semester - 3\Programming With Python\Lab Manual\Lab -5> d:;
b -5'; & 'D:\python.exe' 'c:\Users\abc\.vscode\extensions\ms-python.pytho
y\launcher' '50374' '--' 'D:\Aryan\Semester - 3\Programming With Python\L
True
False
PS D:\Aryan\Semester - 3\Programming With Python\Lab Manual\Lab -5>
```

#### **Task 9:- Conditional Statement**

## **Python Code:**

```
A = 3
if A < 3:
    print(f'{A} Is Greater Than 5')
else:
    print(f'{A} Is Less Than 5')
B = 15
if B > 10:
    print("%d Is Greater Than 10" % B)
elif B > 5:
    print("%d Is Greater Than 5" % B)
```



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else:

print("%d Is Not Greater Than 5"% B)

## **Output:**

```
PS D:\Aryan\Semester - 3\Programming With Python\Lab Manual\Lab -6> d:; b -6'; & 'D:\python.exe' 'c:\Users\abc\.vscode\extensions\ms-python.pytho y\launcher' '50248' '--' 'D:\Aryan\Semester - 3\Programming With Python\L 3 Is Less Than 5
15 Is Greater Than 10
PS D:\Aryan\Semester - 3\Programming With Python\Lab Manual\Lab -6>
```

# Post Lab

#### Task 1

## **Python Code:**

tup3 = ("A", "R", "Y", "A", "N") print(".join(tup3))

## **Output:**

```
d:; cd 'd:\Aryan\Semester - 3\Programming With Python\Lab Manual\Lab -6'; python-2023.14.0\pythonFiles\lib\python\debugpy\adapter/../..\debugpy\laundhon\Lab Manual\Lab -6\31-07-2023 LAB-6.py'
ARYAN
PS D:\Aryan\Semester - 3\Programming With Python\Lab Manual\Lab -6>
```

## Task 2

## **Python Code:**

tuple1 = (11,22)

tuple2 = (99,88)

tuple3 = tuple1 tuple1 = tuple2

tuple2 = tuple3

print(tuple1)

print(tuple2)

```
PS D:\Aryan\Semester - 3\Programming With Python\Lab Manual\Lab -6> d:; cd b -6'; & 'D:\python.exe' 'c:\Users\abc\.vscode\extensions\ms-python.python-2 y\launcher' '50329' '--' 'D:\Aryan\Semester - 3\Programming With Python\Lab (99, 88) (11, 22)
PS D:\Aryan\Semester - 3\Programming With Python\Lab Manual\Lab -6>
```



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#### Task 3

## **Python Code:**

```
tuple3 = ("Orange", [10,20,30],(5,15,25))
print(tuple3[1][1])
```

## **Output:**

```
PS D:\Aryan\Semester - 3\Programming With Python\Lab Manual\Lab -6> d:; b -6'; & 'D:\python.exe' 'c:\Users\abc\.vscode\extensions\ms-python.pytho y\launcher' '50362' '--' 'D:\Aryan\Semester - 3\Programming With Python\L 20
```

#### Task 4

## **Python Code:**

```
tuple4 = (11,[22,33],44,55)
tuple4[1][0] = 222
print(tuple4)
```

## **Output:**

```
PS D:\Aryan\Semester - 3\Programming With Python\Lab Manual\Lab -6> d:; b -6'; & 'D:\python.exe' 'c:\Users\abc\.vscode\extensions\ms-python.pytho y\launcher' '50379' '--' 'D:\Aryan\Semester - 3\Programming With Python\L (11, [222, 33], 44, 55)
PS D:\Aryan\Semester - 3\Programming With Python\Lab Manual\Lab -6>
```

#### Task 5

## **Python Code:**

```
for i in range(1, 11):
print(10, " ", i, " ", i * 10)
```

```
b -6'; & 'D:\python.exe' 'c:\Users\abc\
y\launcher' '50405' '--' 'D:\Aryan\Seme
10
     1
          10
10
     2
          20
10
     3
         30
10
     4
         40
10
     5
         50
10
     6
         60
10
     7
         70
     8
10
         80
10
     9
         90
10
     10
           100
```



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# Task 6

# **Python Code:**

```
for i in range(1,6):
  for j in range(1,5-i):
    print(" ",end="")
  for j in range(1,i):
    print(" * ",end="")
  print("\n")
```

```
*

* *

* *

* *
```