

Lab 4

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Date :- 24-07-2023

Enrollment No :- 92200133030

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

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

Task 1:- Formating Strings

Python Code:

```
A = "{} Marwadi University , {}"  
print(A.format('ICT ','Rajkot'))  
B = "{1} Marwadi University , {0}"  
print(B.format('ICT ','Rajkot'))  
C = "{UniversityName} University , {CityName}"  
print(C.format(UniversityName = "Marwadi",CityName = "Rajkot"))  
per = (12345678/500) * 100  
D = "Result = {r:0.2f} %".format(per)  
print(D)
```

Output:

```
PS D:\Aryan\Semester - 3\Programming With Python\Lab Manual\Lab - 4> d:;  
'c:\Users\abc\.vscode\extensions\ms-python.python-2023.12.0\pythonFiles\  
ogramming With Python\Lab Manual\Lab - 4\24-07-2023 LAB-4.py'  
ICT Marwadi University , Rajkot  
Rajkot Marwadi University , ICT  
Marwadi University , Rajkot  
Result = 2469135.60 %  
PS D:\Aryan\Semester - 3\Programming With Python\Lab Manual\Lab - 4>
```

Task 2:- Demonstrating The Use Of Tuples

Python Code:

```
tuple1 = ("A",1,1+2j,1.25)  
tuple2 = ("B",1.25,6,"C")  
print(tuple1)  
print(tuple1[0])  
print(tuple1[1])  
print(tuple1[2])  
print(tuple1[3])
```

```
print(tuple1[0:4])
print(len(tuple1))
print(tuple1 + tuple2)
print(len(tuple1 + tuple2))
tuple3 = ('ABC',2.53,1+3j,2+4j,6)
tuple4 = ('A','B','C',7+2j)
tuple5 = tuple3[2:4] + tuple4[3:4]
```

Output:

```
PS D:\Aryan\Semester - 3\Programming With Python\Lab Manual\Lab - 4>
- 4'; & 'D:\python.exe' 'c:\Users\abc\.vscode\extensions\ms-python.pyt
uncher' '61332' '--' 'd:\Aryan\Semester - 3\Programming With Python\La
('A', 1, (1+2j), 1.25)
A
1
(1+2j)
1.25
('A', 1, (1+2j), 1.25)
4
('A', 1, (1+2j), 1.25, 'B', 1.25, 6, 'C')
8
PS D:\Aryan\Semester - 3\Programming With Python\Lab Manual\Lab - 4>
```

Task 3:- Demonstrating The Use Of List**Python Code:**

```
list1 = ['A', 2.5, 2+3j, 6]
list2 = [3.7, 'B', True, 6+4j]
print(list1[0])
list1[0] = 5
print(list1 + list2)
print(type(list(tuple1)))
```

Output:

```
PS D:\Aryan\Semester - 3\Programming With Python\Lab Manual\Lab - 4> d:; cd 'd:\Aryan\Semester
- 4'; & 'D:\python.exe' 'c:\Users\abc\.vscode\extensions\ms-python.python-2023.12.0\pythonFiles\
uncher' '61362' '--' 'd:\Aryan\Semester - 3\Programming With Python\Lab Manual\Lab - 4\24-07-202
('A', 1, (1+2j), 1.25)
A
1
(1+2j)
1.25
('A', 1, (1+2j), 1.25)
4
('A', 1, (1+2j), 1.25, 'B', 1.25, 6, 'C')
8
A
[5, 2.5, (2+3j), 6, 3.7, 'B', True, (6+4j)]
<class 'list'>
PS D:\Aryan\Semester - 3\Programming With Python\Lab Manual\Lab - 4>
```

Task 4:- ImplementingThe List Functions**Python Code:**

```
list9 = ["Aryan"]  
list9.append("Langhanoja")  
print(list9)  
list9.insert(1,"Dilipbhai")  
print(list9)  
list10 = ["Is Great"]  
list9.extend(list10)  
print(list9)
```

Output:

```
PS D:\Aryan\Semester - 3\Programming With Python\Lab Manual\Lab - 4> d:;  
- 4'; & 'D:\python.exe' 'c:\Users\abc\.vscode\extensions\ms-python.python-  
uncher' '61430' '--' 'd:\Aryan\Semester - 3\Programming With Python\Lab Ma  
['Aryan', 'Langhanoja']  
['Aryan', 'Dilipbhai', 'Langhanoja']  
['Aryan', 'Dilipbhai', 'Langhanoja', 'Is Great']  
PS D:\Aryan\Semester - 3\Programming With Python\Lab Manual\Lab - 4>
```