

Lab 2

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Date:- 12-07-2023

Enrollment No:- 92200133030

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

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

Task 1:- Assigning the same value to a different variable at a time

Python Code:

```
x = y = z = 99
print(x,y,z)
print(x)
print(y)
print(z)
```

Output:

```
PS D:\Aryan\Semester - 3\Programming With Python\Lab Manual\Lab - 2>
Files\lib\python\debugpy\adapter/../../debugpy\launcher' '51521' '--'
99 99 99
99
99
99
```

Task 2:- Assigning the different value to a different variable at a time

Python Code:

```
a,b,c = 5,6,7
print(a,b,c)
print(a)
print(b)
print(c)
```

Output:

```
PS D:\Aryan\Semester - 3\Programming With Python\Lab Manual\Lab - 2>
hon.exe' 'c:\Users\abc\.vscode\extensions\ms-python.python-2023.12.0\p
\Semester - 3\Programming With Python\Lab Manual\Lab - 2\12-07-2023.py
5 6 7
5
6
7
```

Task 3:- Adding two numbers**Python Code:**

```
X = 10  
Y = 20  
print(X+Y)
```

Output:

```
PS D:\Aryan\Semester - 3\Programming With Python\Lab Manual\Lab - 2> d:  
hon.exe' 'c:\Users\abc\.vscode\extensions\ms-python.python-2023.12.0\py  
\Semester - 3\Programming With Python\Lab Manual\Lab - 2\12-07-2023.py  
30
```

Task 4:- Concatating two strings**Python Code:**

```
P = "Hello"  
Q = "World"  
print(P + " " + Q)
```

Output:

```
PS D:\Aryan\Semester - 3\Programming With Python\Lab Manual\Lab - 2> d:  
hon.exe' 'c:\Users\abc\.vscode\extensions\ms-python.python-2023.12.0\py  
\Semester - 3\Programming With Python\Lab Manual\Lab - 2\12-07-2023.py'  
Hello World
```

Task 5:- Printing the string in different ways using indexing**Python Code:**

```
P = "Hello"  
Q = "World"  
R = P + " " + Q  
print(R[:5])  
print(R[::-1])
```

Output:

```
PS D:\Aryan\Semester - 3\Programming With Python\Lab Manual\Lab - 2> d:  
hon.exe' 'c:\Users\abc\.vscode\extensions\ms-python.python-2023.12.0\py  
\Semester - 3\Programming With Python\Lab Manual\Lab - 2\12-07-2023.py  
Hello  
dlrow olleH
```

Task 5:- implemet different operators on strings.**Python Code:**

```
H = "Aryan Langhanoja"
print(H[2:5])
print(H[:5])
print(H[2:])
print(H[::-1])
print(H[-1:])
print(H[:1])
print(H[1:])
print(H[:2])
print(H[-5:-2])
print('A' in H)
print('M' in H)
print(H*2)
T = "Aryan Langhanoja"
Q = "Aryan Patel"
print(T == Q)
print('A' in T)
print('A' not in Q)
```

Output:

```
PS D:\Aryan\Semester - 3\Programming With Python\Lab Manual\Lab - 2> d:;
n\Lab Manual\Lab - 2'; & 'D:\python.exe' 'c:\Users\abc\.vscode\extensions\
n\debugpy\adapter/../../debugpy\launcher' '58527' '--' 'd:\Aryan\Semester
2-07-2023.py'
yan
Aryan
yan Langhanoja
ajonahgnaL nayrA
a
Aryan Langhanoja
ryan Langhanoja
AynLnhnj
ano
True
False
Aryan LanghanojaAryan Langhanoja
False
True
False
PS D:\Aryan\Semester - 3\Programming With Python\Lab Manual\Lab - 2>
```

Task 6:- implemet different operators on strings.**Python Code:**

```
name = "Aryan"  
age = 19  
marks = 20.39  
string1 = 'Hey %s' % (name)  
string2 = 'My Age Is %d' % (age)  
string3 = 'Hello , My Name Is %s , My Age Is %d , And My Mark Is %f' %(name,age,marks)  
print(string1)  
print(string2)  
print(string3)
```

Output:

```
PS D:\Aryan\Semester - 3\Programming With Python\Lab Manual\Lab - 2> d:; cd 'd:\Aryan\Semester - 3\Programming With Python\Lab Manual\Lab - 2'; & 'D:\python.exe' 'c:\Users\abc\.vscode\extensions\ms-python.python-2023.12.0\debugpy\adapter\..\..\debugpy\launcher' '58565' '--' 'd:\Aryan\Semester - 3\Programming With Python\Lab Manual\Lab - 2-07-2023.py'  
Hey Aryan  
My Age Is 19  
Hello , My Name Is Aryan , My Age Is 19 , And My Mark Is 20.390000  
PS D:\Aryan\Semester - 3\Programming With Python\Lab Manual\Lab - 2>
```

Task 7:- implementing string methods**Python Code:**

```
x = "Aryan Langhanoja"  
count = x.count('a')  
title = x.title()  
lower = x.lower()  
upper = x.upper()  
print(count)  
print(title)  
print(lower)  
print(upper)
```

Output:

```
PS D:\Aryan\Semester - 3\Programming With Python\Lab Manual\Lab - 2> d:; cd 'd:\Aryan\Semester - 3\Programming With Python\Lab Manual\Lab - 2'; & 'D:\python.exe' 'c:\Users\abc\.vscode\extensions\ms-python.python-2023.12.0\debugpy\adapter\..\..\debugpy\launcher' '58627' '--' 'd:\Aryan\Semester - 3\Programming With Python\Lab Manual\Lab - 2-07-2023.py'  
4  
Aryan Langhanoja  
aryan langhanoja  
ARYAN LANGHANOJA  
PS D:\Aryan\Semester - 3\Programming With Python\Lab Manual\Lab - 2> █
```