

Lab 1

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Date:- 11-07-2023

Enrollment No:- 92200133030

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

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

Task 1: Printing on screen

Python Code:

```
print('Hello World')
```

```
print(5)
```

Output:

```
PS D:\Aryan\Semester - 3\Programming With Python\Lab Manual\Lab - 1> &
b\python\debugpy\adapter/../../debugpy\launcher' '50331' '--' 'd:\Aryan\
Hello World
5
PS D:\Aryan\Semester - 3\Programming With Python\Lab Manual\Lab - 1>
```

Task 2 : to end any string with any specific character.

Python Code:

```
print("Hello World",end='!')
```

```
print("\nICT")
```

Output:

```
PS D:\Aryan\Semester - 3\Programming With Python\Lab Manual\Lab - 1> &
ython-2023.12.0\pythonFiles\lib\python\debugpy\adapter/../../debugpy\lau
Python\Lab Manual\Lab - 1\11-07-2023 LAB-1.py'
Hello World!
ICT
```

Task 3: assigning the value**Python Code:**

```
a = 6  
print(a)  
a,b = 8,8  
print(a)  
print(b)
```

Output:

```
PS D:\Aryan\Semester - 3\Programming With Python\Lab Manual\Lab - 1>  
al\Lab - 1'; & 'D:\python.exe' 'c:\Users\abc\.vscode\extensions\ms-pyt  
/..\debugpy\launcher' '50263' '--' 'd:\Aryan\Semester - 3\Programming  
6  
8  
8
```

Task 4: Checking the different data types**Python Code:**

```
c = "5"  
print(type(c))  
d = 5.5  
print(type(d))  
d = 2 + complex(3)  
print(type(d))
```

Output:

```
PS D:\Aryan\Semester - 3\Programming With Python\Lab Manual\Lab - 1>  
al\Lab - 1'; & 'D:\python.exe' 'c:\Users\abc\.vscode\extensions\ms-py  
/..\debugpy\launcher' '50370' '--' 'd:\Aryan\Semester - 3\Programming  
<class 'str'>  
<class 'float'>  
<class 'complex'>
```

Task 5 : taking input from user**Python Code:**

```
num = input("Enter Number:-")  
print(num)  
print(type(num))
```

Output:

```
PS D:\Aryan\Semester - 3\Programming With Python\Lab Manual\Lab - 1>
al\Lab - 1'; & 'D:\python.exe' 'c:\Users\abc\.vscode\extensions\ms-pyt
/..\debugpy\launcher' '50406' '--' 'd:\Aryan\Semester - 3\Programming
Enter Number:-5
5
<class 'str'>
```

Task 6: Concat the string**Python Code:**

```
b = "Department"
print("My Department Name Is " + b)
```

Output:

```
PS D:\Aryan\Semester - 3\Programming With Python\Lab Manual\Lab - 1>
al\Lab - 1'; & 'D:\python.exe' 'c:\Users\abc\.vscode\extensions\ms-pyt
/..\debugpy\launcher' '50438' '--' 'd:\Aryan\Semester - 3\Programming
My Department Name Is Department
```

Task 7: abstracting the character of strings via indexing**Python Code:**

```
print(b[0])
print(b[0:3])
print(b[len(b) - 4 : len(b) + 1])
print(b[0::])
```

Output:

```
PS D:\Aryan\Semester - 3\Programming With Python\Lab Manual\Lab - 1>
al\Lab - 1'; & 'D:\python.exe' 'c:\Users\abc\.vscode\extensions\ms-pyt
/..\debugpy\launcher' '50507' '--' 'd:\Aryan\Semester - 3\Programming
My Department Name Is Department
D
Dep
ment
Department
```