BRAINWARE UNIVERSITY
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Laboratory Report / Workshop / Assignment Submission
Session - 2024 - 25

Lab Report No: - 4

Topic Title: -

Name of the Department: - Cyber Science & Technology

Programme Name: - B.Sc (H) ANCS 2024

Semester / Year: - Semester-2, 2024-2025

Course Code: - VAC09009

Course Name: - Python Programming Lab

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Roll No: -

Registration No: -

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Loops in Python

~~Loop~~

Loops in python allows us to execute a block of code multiple times ~~teg~~ they are essential for tasks such as iterating over data structure, automating repetative tasks and implementing algorgithms

Type of Loops

i. **For Loops:** The for loop in python is used for eterating over a sequence such as list, tupple, string, dictionary or range.

ii. **While Loops:** A while loop executes a block of code as long as a given condition is true.[It is useful when the number of iterations is not known in advance.] (While Loop) unlike while loops for loops do not require explicit counters; Instead they iterate over items directory.

Example:

1. Title: Print 0 to 5

Input:
```
i = 1
for i in range (6):
    Print(i)
```
Output:
```
0
1
2
3
4
5
```

2. Title: print 2,4,6,8,10

Input:
```
for i in range (2,12,2):
    Print(i)
```
Output:
```
2
4
6
8
10
```

3. Title: Print strings in one variable line by line

Input:
```
ABC = ["Python", "CE", "Lin"]
for ABC in ABC:
    Print (ABC)
```
Output:
```
Python
CE
Lin
```

4. Title: while loop

Input:
```
x = 0
while (x<8):
    ~~Print(x)~~
    x += 1
    Print(x)
```
Output:
```
0
1
2
3
4
5
6
7
```

5. Title: Break

Input:
```
for i in range (10):
    if i == 5:
        break
    Print (i)
```
Output:
```
0
1
2
3
4
```

6. Title: Continue

Input:
```
for i in range (10):
    if i == 5:
        continue
    Print (i)
```
Output:
```
0
1
2
3
4
5
6
7
8
9
```

7. Title: Login with while loop

Input:
```
password = ""
while password != "Secret":
    Password = input("Enter Password:")
Print ("Access granted")
```
Output:
```
Enter Password Secret
Access granted.
```

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