

# While Loop

#1. Print numbers from 1 to 10 using a while loop

```
i = 1  
  
while i <= 10:  
    print(i)  
    i += 1
```

out put –

```
PS C:\Users\bandi\.vscode> & C:/Users/bandi/AppData/Local/Programs/Python/Python313/python.exe  
"d:/Tasks/python/While Loop task.py"
```

```
1  
2  
3  
4  
5  
6  
7  
8  
9  
10
```

#2. Print even numbers between 1 and 50 using a while loop

```
i = 2  
  
while i <= 50:  
    print(i)  
    i += 2
```

out put –

```
PS C:\Users\bandi\.vscode> & C:/Users/bandi/AppData/Local/Programs/Python/Python313/python.exe  
"d:/Tasks/python/While Loop task.py"
```

1

2

3

4

5

6

7

8

9

10

2

4

6

8

10

12

14

16

18

20

22

24

26

28

30

32

34

36

38

40

42

44

46

48

50

#3. Print the multiplication table of a given number (e.g., 5) using a while loop

```
num = 5
```

```
i = 1
```

```
while i <= 10:
```

```
    print(f"{num} x {i} = {num * i}")
```

```
    i += 1
```

5 x 1 = 5

5 x 2 = 10

5 x 3 = 15

5 x 4 = 20

5 x 5 = 25

5 x 6 = 30

5 x 7 = 35

5 x 8 = 40

5 x 9 = 45

5 x 10 = 50

#4. Calculate the sum of digits of a number using a while loop

```
num = 123
```

```
total = 0
```

```
while num > 0:
```

```
    digit = num % 10
```

```
    total += digit
```

```
    num = num // 10
```

```
print("Sum of digits:", total)
```

**out put –**

Sum of digits: 6

#5. Reverse a number using a while loop

```
num = 123
```

```
reverse = 0
```

```
while num > 0:
```

```
    digit = num % 10
```

```
    reverse = reverse * 10 + digit
```

```
    num = num // 10
```

```
print("Reversed number:", reverse)
```

**out put –**

Reversed number: 321