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Section: "A"

Lab: 05

Subject: Artificial Intelligence

Program: BS-IT

# Task 01: Write a program that uses a loop to print numbers from 1 to 10.

#### Code:

```
for number in range(1, 11):
    print(number)
```

```
1
2
3
4
5
6
7
8
9
10
PS D:\Users\junaid\Desktop\forpractice> []
```

Task 02: Write a function that calculates the sum of all numbers up to a given number using a loop.

#### Code:

```
def sumN(n):
    total = 0
    for i in range(1, n + 1):
        total += i
    return total
number=10
result = sumN(number)
print("sum of numbers up to ",number,"is : ",result)
```

```
sum of numbers up to 10 is : 55
```

# Task 03: Write code using loops and nested loops to create star

#### Code:

```
num=5
for i in range(1, num + 1):
    for j in range(i):
        print('*', end=' ')
    print()
```

# <u>Task 04:</u> Write a function that takes a list of numbers and prints only the even numbers.

#### Code:

```
def print_even_numbers(numbers):
    for number in numbers:
        if number % 2 == 0:
            print(number)

numbers_list = [1, 2, 3, 4, 5, 6, 7, 8, 9, 10]
print_even_numbers(numbers_list)
```

```
2
4
6
8
10
PS D:\Users\junaid\Desktop\forpractice>
```