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Section: IT- 3 A

Department: BS-IT

Course: Artificial Intelligence (AI)

Lab Task: Lab #07

Assigned By: Aqsa Umar

• **Task 01:-** Write a Python function that draws a square using asterisks (*). The side length of the square should be provided by the user.

```
def draw_square(side_length):
    for _ in range(side_length):
        print('*' * side_length)

side_length = int(input("Enter the side length of the square:
"))
draw_square(side_length)
```

```
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PROBLEMS
          OUTPUT
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PS C:\Users\PMYLS> & C:/Users/PMYLS/AppData/Local/Programs/Python/Python312/python.exe c:/Users/PMYLS/OneDrive/Desktop/loop.py
Enter the side length of the square: 5
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PS C:\Users\PMYLS>
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```

• **Task 02:-** Write a Python function that takes a list of numbers as input and returns the sum of only the even numbers.

```
def sum_of_even_numbers(numbers):
    return sum(num for num in numbers if num % 2 == 0)

numbers = list(map(int, input("Enter numbers separated by spaces: ").split()))
print("Sum of even numbers:",
sum_of_even_numbers(numbers))
```



• **Task 03:-** Write a Python function that takes a number as input and counts down to zero, printing each number.

```
def countdown(number):
    while number >= 0:
        print(number)
        number -= 1

number = int(input("Enter a number: "))
countdown(number)
```

```
PS C:\Users\PMYLS> & C:\Users\PMYLS/AppData/Local/Programs/Python/Python312/python.exe c:\Users/PMYLS/OneDrive/Desktop/loop.py

Enter a number: 05

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