

**Lab # 06**

**Student Name: Muhammad Hussain**

**Roll Number: BIT-23F-023**

**Section: IT-3A**

**Subject: Artificial Intelligence**

**Department: BS Information Technology**

**New Assignment:**

**Lab: 06**

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

**Code:**

def draw\_square(side\_length):

    if side\_length < 1:

        print("Side length must be a positive integer.")

        return

    for \_ in range(side\_length):

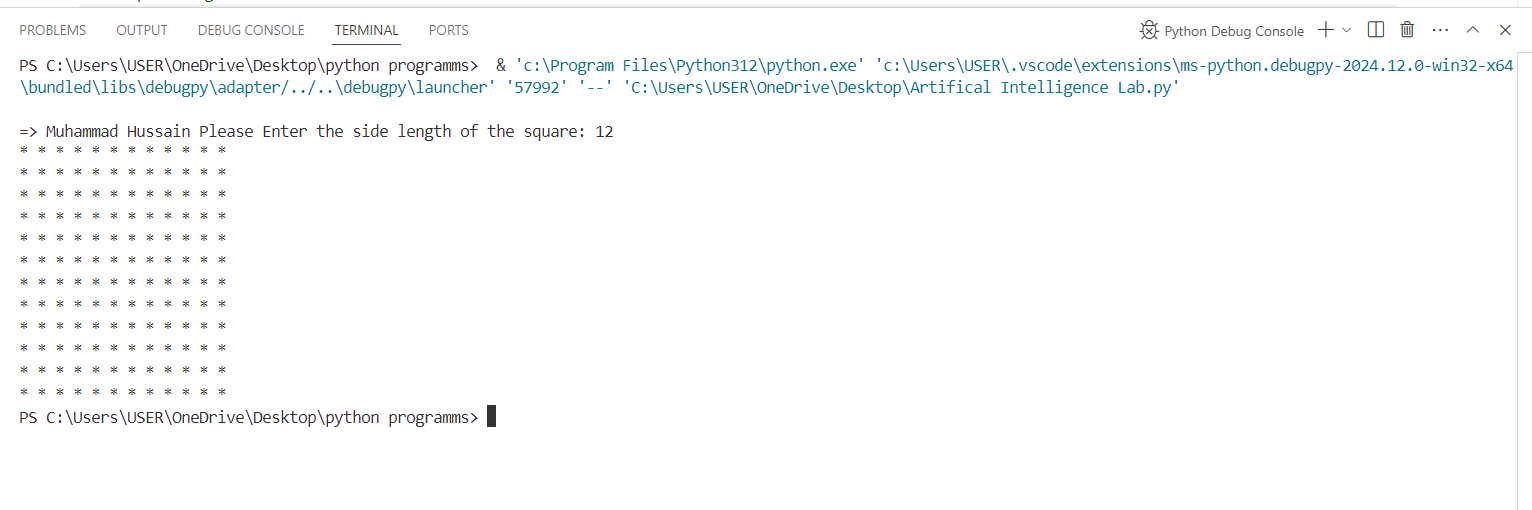
        print("\* " \* side\_length)

# Example usage

side\_length = int(input("\n=> Muhammad Hussain Enter the side length of the square: "))

draw\_square(side\_length)

**Output:**

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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.

**Code:**

def sum\_of\_evens(numbers):

    return sum(num for num in numbers if num % 2 == 0)

# Example usage

numbers = [1, 2, 3, 4, 5, 6 ,7, 8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26]

print("\n<\_\_Muhammad Hussain\_\_>")

print(f"\n The sum of even numbers is : {sum\_of\_evens(numbers)}")

print("\n<~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~>")

**Output:**



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

**Code:**

def countdown(number):

    if number < 0:

        print("Please provide a non-negative number.")

        return

    for i in range(number, -2, -2):

        print(i)

# Example usage

start\_number = int(input("Enter a number to start the countdown: "))

countdown(start\_number)

**Output:**

