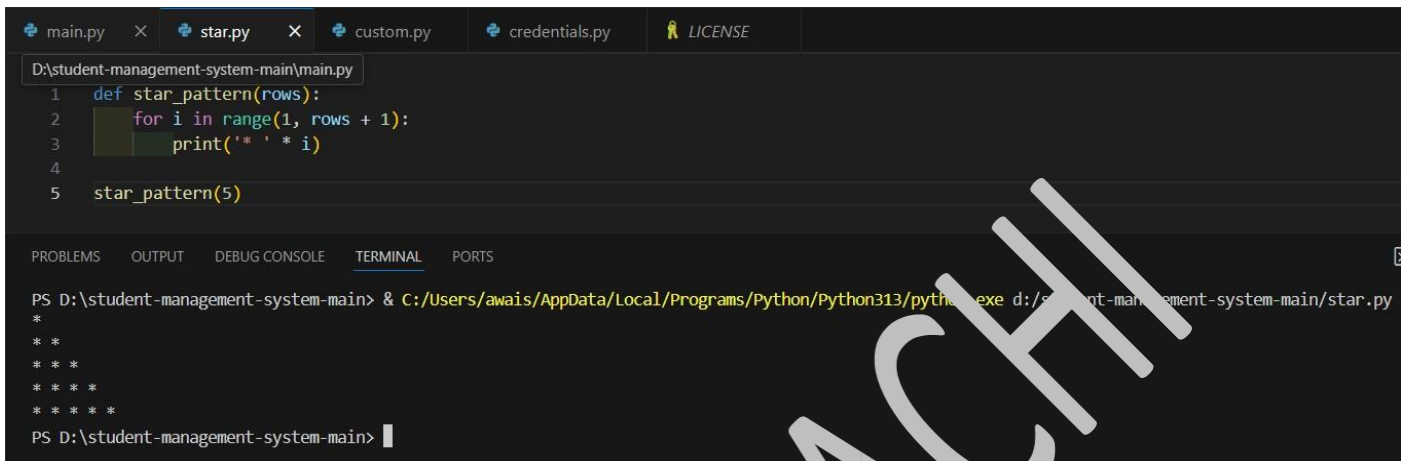




LAB NO: (05)

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ID	BIT-23F-039
SECTION	“3B”
SUBJECT	Artificial Intelligence
TEACHER NAME	Mam Aqsa

### ➤ Task One (Star Shape)

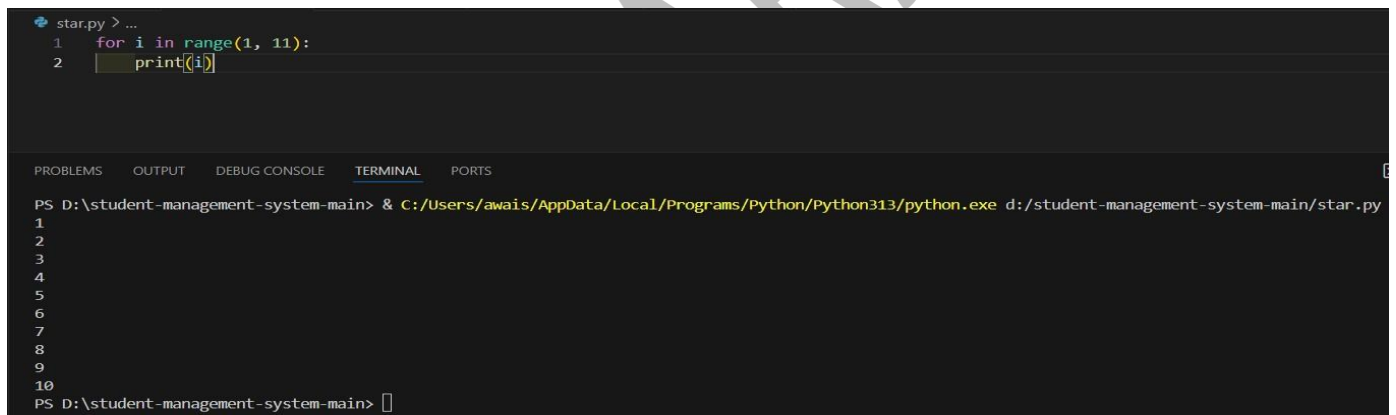


```
main.py x star.py x custom.py credentials.py LICENSE
D:\student-management-system-main\main.py
1 def star_pattern(rows):
2     for i in range(1, rows + 1):
3         print('* ' * i)
4
5 star_pattern(5)

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

PS D:\student-management-system-main> C:/Users/awais/AppData/Local/Programs/Python/Python313/python.exe d:/student-management-system-main/star.py
*
* *
* * *
* * * *
* * * * *
PS D:\student-management-system-main>
```

### ➤ Task Two (Print 1-10 Numbers)

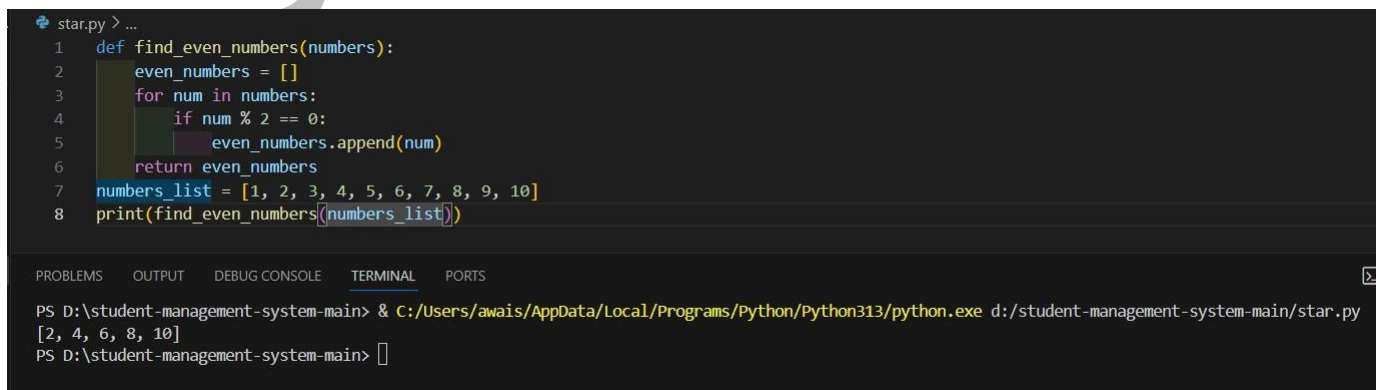


```
star.py > ...
1 for i in range(1, 11):
2     print(i)

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

PS D:\student-management-system-main> C:/Users/awais/AppData/Local/Programs/Python/Python313/python.exe d:/student-management-system-main/star.py
1
2
3
4
5
6
7
8
9
10
PS D:\student-management-system-main>
```

### ➤ Task Three (Print Even Numbers)



```
star.py > ...
1 def find_even_numbers(numbers):
2     even_numbers = []
3     for num in numbers:
4         if num % 2 == 0:
5             even_numbers.append(num)
6     return even_numbers
7 numbers_list = [1, 2, 3, 4, 5, 6, 7, 8, 9, 10]
8 print(find_even_numbers(numbers_list))

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

PS D:\student-management-system-main> C:/Users/awais/AppData/Local/Programs/Python/Python313/python.exe d:/student-management-system-main/star.py
[2, 4, 6, 8, 10]
PS D:\student-management-system-main>
```

➤ Task Four (Sum of All Numbers)

```
star.py > calculate_sum
1
2 def calculate_sum(n):
3     a = 0
4     for i in range(1, n + 1):
5         a += i
6     return a
7 print(calculate_sum(10))
8
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

PS D:\student-management-system-main> & C:/Users/awais/AppData/Local/Programs/Python/Python313/python.exe d:/student-management-system-main/star.py  
55  
PS D:\student-management-system-main>