**SOFTWARE ENGENEERING**

**3 bca b**

**"Practical - 4"**

***BY***

**"Tharan" (23215134)**

**SUBMITTED TO**

**prateek singh**

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**SCHOOL OF SCIENCES**

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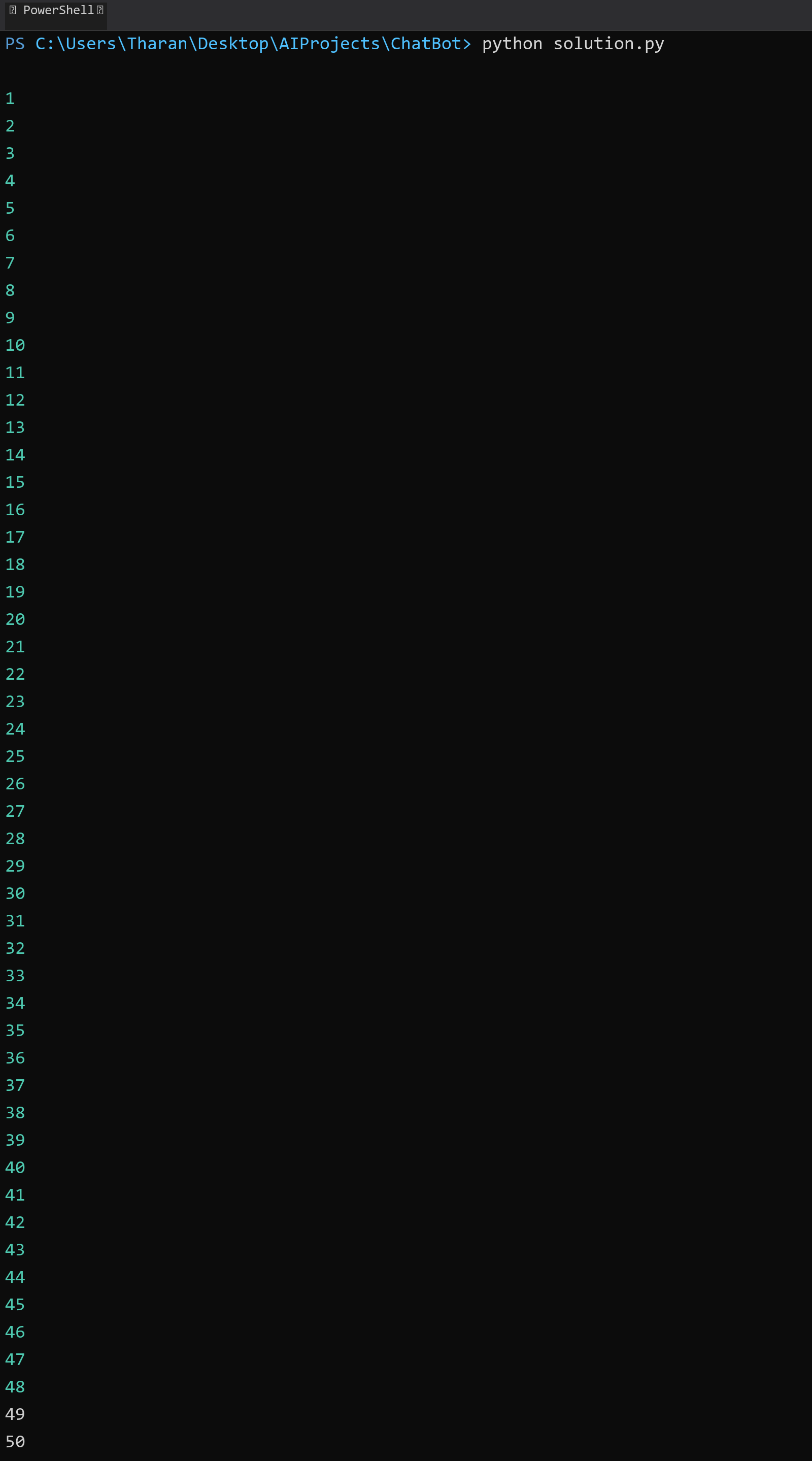
## **QUESTION 1**

1.Write a program to print the numbers from 1 to 50 using a for loop.

### **Code Solution**

for i in range(1, 51):  
 print(i)

### **FINAL Output**



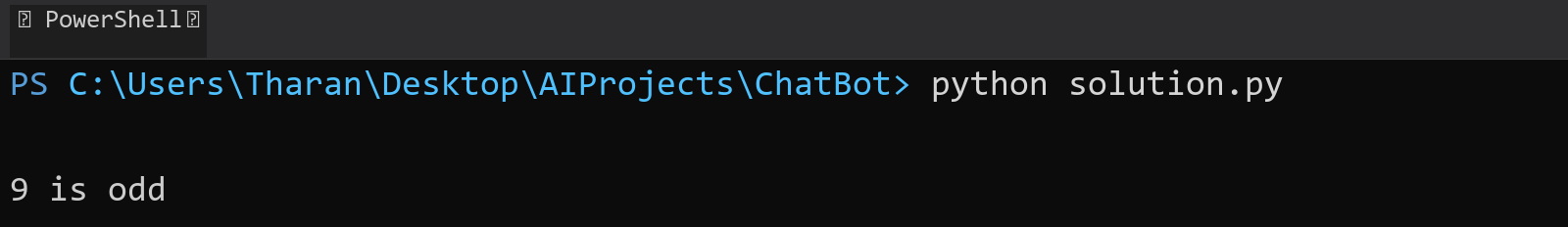
## **QUESTION 2**

2.Write a program that takes an integer as input and checks if it is even or odd.

### **Code Solution**

number = 9  
if number % 2 == 0:  
 print(f"{number} is even")  
else:  
 print(f"{number} is odd")

### **FINAL Output**



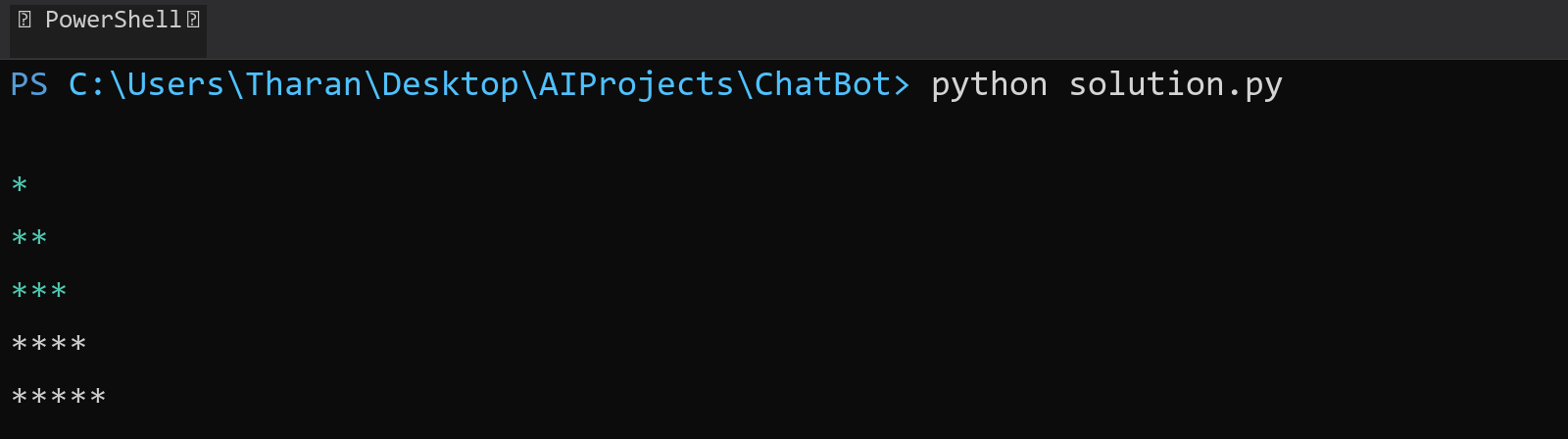
## **QUESTION 3**

3.Create a program that prints a right -angled triangle pattern of \* with a height of 5.

### **Code Solution**

n = 5  
for i in range(1, n + 1):  
 print('\*' \* i)

### **FINAL Output**



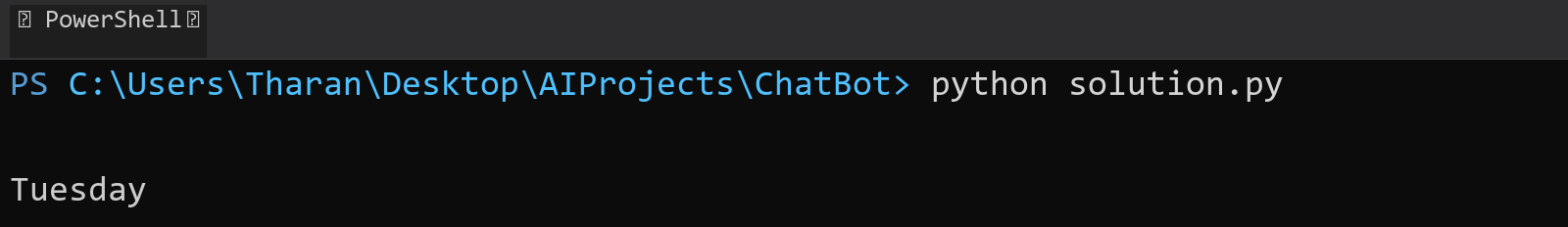
## **QUESTION 4**

4.Write a program that takes a number (1 -7) as input and prints the corresponding day of the week using a switch statement.

### **Code Solution**

def get\_day\_of\_week(number):  
 days = {  
 1: "Monday",  
 2: "Tuesday",  
 3: "Wednesday",  
 4: "Thursday",  
 5: "Friday",  
 6: "Saturday",  
 7: "Sunday"  
 }  
 return days.get(number, "Invalid day number")  
  
day\_number = 2  
print(get\_day\_of\_week(day\_number))

### **FINAL Output**



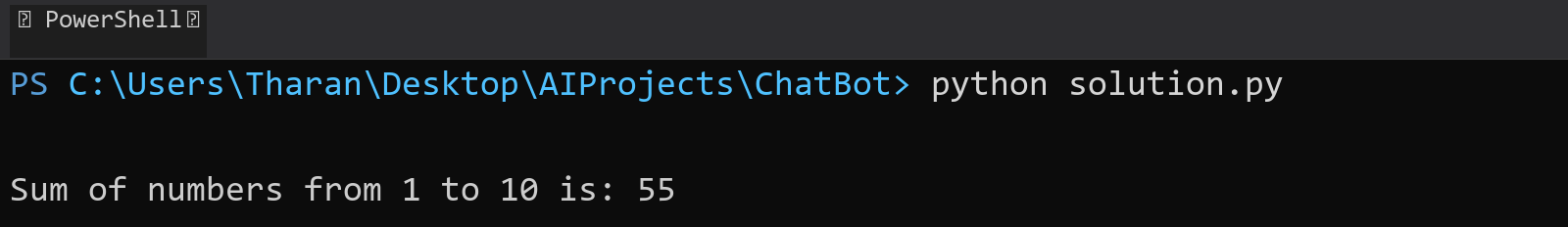
## **QUESTION 5**

5.Write a program to calculate the sum of all numbers from 1 to n using a while loop.

### **Code Solution**

n = 10  
sum = 0  
i = 1  
while i <= n:  
 sum += i  
 i += 1  
print("Sum of numbers from 1 to", n, "is:", sum)

### **FINAL Output**



## **QUESTION 6**

6.Write a program to check if a given number is prime or not using a for loop and if conditions.

### **Code Solution**

n = 17  
is\_prime = True  
  
if n <= 1:  
 is\_prime = False  
else:  
 for i in range(2, int(n \*\* 0.5) + 1):  
 if n % i == 0:  
 is\_prime = False  
 break  
  
if is\_prime:  
 print(n, "is a prime number")  
else:  
 print(n, "is not a prime number")

### **FINAL Output**

