**SOFTWARE ENGENEERING**

**3 bca b**

**"Practical - 4"**

***BY***

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**SUBMITTED TO**

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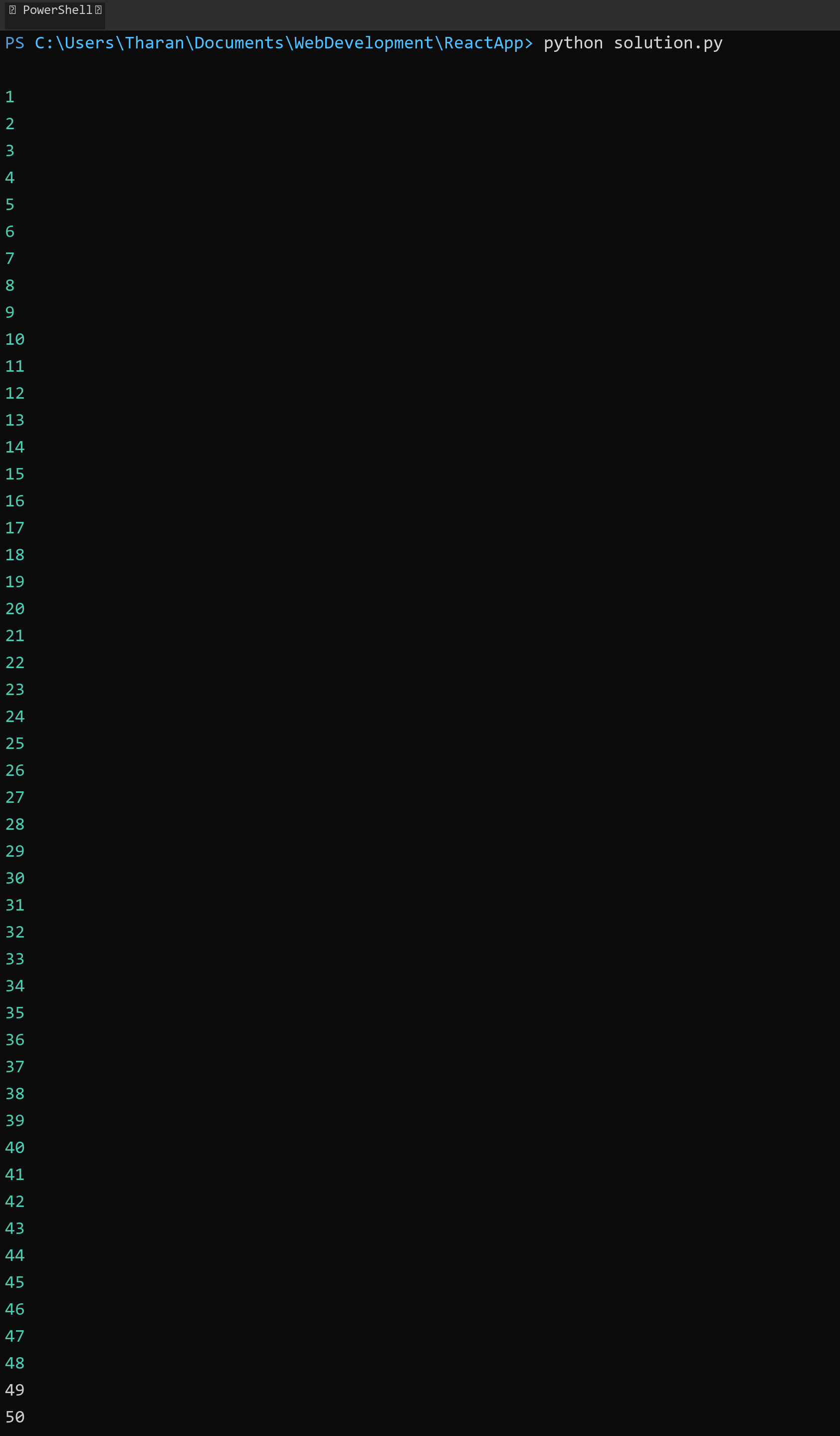
## **QUESTION 1**

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 = 8  
if number % 2 == 0:  
 print(number, "is even")  
else:  
 print(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**

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

### **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(day\_number):  
 match day\_number:  
 case 1:  
 return "Monday"  
 case 2:  
 return "Tuesday"  
 case 3:  
 return "Wednesday"  
 case 4:  
 return "Thursday"  
 case 5:  
 return "Friday"  
 case 6:  
 return "Saturday"  
 case 7:  
 return "Sunday"  
 case \_:  
 return "Invalid day number"  
  
day = 3  
print(get\_day\_of\_week(day))

### **FINAL Output**



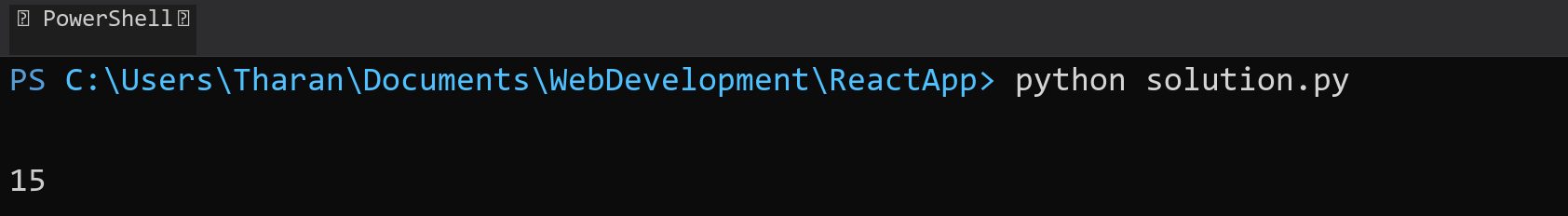
## **QUESTION 5**

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

### **Code Solution**

n = 5  
sum = 0  
i = 1  
while i <= n:  
 sum += i  
 i += 1  
print(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**

number = 17  
is\_prime = True  
  
if number > 1:  
 for i in range(2, number):  
 if number % i == 0:  
 is\_prime = False  
 break  
else:  
 is\_prime = False  
  
if is\_prime:  
 print(f"{number} is a prime number")  
else:  
 print(f"{number} is not a prime number")

### **FINAL Output**

