Assignment

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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

n = 10  
sum = 0  
i = 1  
while i <= n:  
 sum += i  
 i += 1  
print(sum)

### 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(1, 6):  
 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

number = 8  
if number % 2 == 0:  
 print("Even")  
else:  
 print("Odd")

### FINAL Output



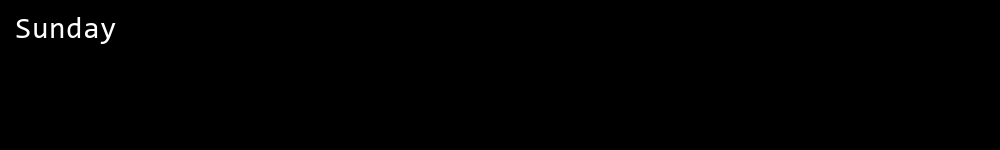
## QUESTION 5

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

### Code Solution

day\_number = 7  
if day\_number == 1:  
 print("Monday")  
elif day\_number == 2:  
 print("Tuesday")  
elif day\_number == 3:  
 print("Wednesday")  
elif day\_number == 4:  
 print("Thursday")  
elif day\_number == 5:  
 print("Friday")  
elif day\_number == 6:  
 print("Saturday")  
elif day\_number == 7:  
 print("Sunday")  
else:  
 print("Invalid day number")

### 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 = 7  
is\_prime = True  
if number > 1:  
 for i in range(2, int(number \*\* 0.5) + 1):  
 if number % i == 0:  
 is\_prime = False  
 break  
else:  
 is\_prime = False  
print(is\_prime)

### FINAL Output

