*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*

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

### *FINAL Output*



## *QUESTION 2*

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

### *Code Solution*

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

### *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):  
 for j in range(i):  
 print("\*", end="")  
 print()

### *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 is\_prime(n):  
 if n <= 1:  
 return False  
 for i in range(2, int(n \*\* 0.5) + 1):  
 if n % i == 0:  
 return False  
 return True  
  
number = 17  
result = is\_prime(number)  
print(result)

### *FINAL Output*



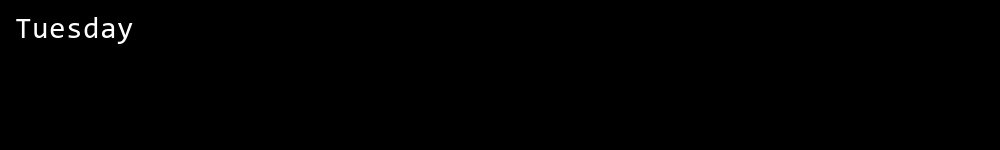
## *QUESTION 5*

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

### *Code Solution*

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

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

### *FINAL Output*

