**PYTHON**

**5 BCA B**

**"Practical - 3"**

***BY***

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**SUBMITTED TO**

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**SCHOOL OF SCIENCES**

**2025-2026**

## 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

for i in range(1, 6):  
 for j in range(i):  
 print("\*", end="")  
 print()

### FINAL Output



## QUESTION 3

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

### Code Solution

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

### FINAL Output



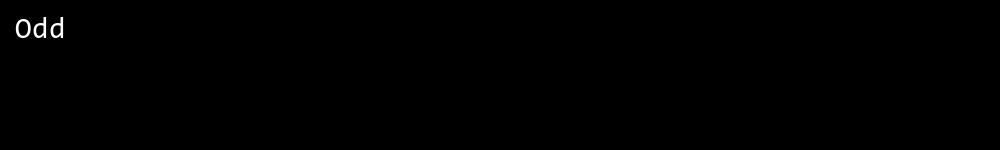
## QUESTION 4

***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

n = 9  
if n % 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

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 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 = 8  
  
def get\_day(num):  
 match num:  
 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"  
  
result = get\_day(number)  
print(result)

### FINAL Output

