



COMPUTER SCIENCE **ASSIGNMENT 2** **JULY 2026**
CLASS XI

1. Differentiate between if-elif-else and nested if-else with the help of suitable examples for each.
2. Write a Python program to accept three numbers from the user and print the largest among them using if-elif-else.
3. Find the output of the following code segment:

```
x = 15
y = 20
if x > y:
    print("x is greater")
elif x == y:
    print("Both are equal")
else:
    print("y is greater")
print("Program ends")
```

4. Write a Python program to check whether a given year is a leap year or not. (Hint: A year is a leap year if it is divisible by 4 but not by 100, unless it is also divisible by 400.)
5. Differentiate between a while loop and a for loop in Python. When would you prefer using one over the other?
6. Explain the working of the range() function with examples for the following cases:
7. Write a Python program using a for loop to print the multiplication table of a number entered by the user (from 1 to 10).
8. Write a Python program using a while loop to find the sum of digits of a given number.
9. Find the output of the following code segment:

```
i = 1
total = 0
while i <= 5:
    total = total + i
    i += 1
print("Sum =", total)
```

10. Write a Python program to display all the prime numbers between 1 and 50 using a for loop. [
11. What is a nested loop? Write a Python program using nested for loops to print the following pattern:

```
*
* *
* * *
* * * *
* * * * *
```

12. Find the output of the following nested loop code:

```
for i in range(1, 4):
    for j in range(1, 3):
        print(i, "x", j, "=", i*j)Statements (break, continue, pass)
```

13. Differentiate between break, continue, and pass statements in Python with suitable examples for each.

14. Find the output of the following code segment and justify your answer:

```
for num in range(1, 10):
    if num % 2 == 0:
        continue
    if num == 7:
        break
    print(num)
```

15. Write a Python program that accepts numbers from the user in a loop and stops accepting input as soon as the user enters a negative number, using a break statement. The program should then print the sum of all the positive numbers entered.