

## Python Programming Assignment:

### Conditional Statements:

1. Write a Python program to find the maximum between two numbers.
  2. Write a Python program to find the maximum between three numbers.
  3. Write a Python program to check whether a number is negative, positive, or zero.
  4. Write a Python program to check whether a number is divisible by 5 and 11 or not.
  5. Write a Python program to check whether a number is even or odd.
  6. Write a Python program to check whether a year is a leap year or not.
  7. Write a Python program to input marks of five subjects: Physics, Chemistry, Biology, Mathematics, and Computer. Calculate the percentage and grade according to the following:
    - Percentage  $\geq 90\%$  : Grade A
    - Percentage  $\geq 80\%$  : Grade B
    - Percentage  $\geq 70\%$  : Grade C
    - Percentage  $\geq 60\%$  : Grade D
    - Percentage  $\geq 40\%$  : Grade E
    - Percentage  $< 40\%$  : Grade F
  8. Write a Python program to input the basic salary of an employee and calculate its Gross salary according to the following:
    - Basic Salary  $\leq 10000$  : HRA = 20%, DA = 80%
    - Basic Salary  $\leq 20000$  : HRA = 25%, DA = 90%
    - Basic Salary  $> 20000$  : HRA = 30%, DA = 95%
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### Python Programming: Loop Practice Exercises

1. Write a Python program to print the first 10 natural numbers using a while loop.
2. Write a Python program to calculate the sum of all numbers from 1 to a given number (n).
3. Write a Python program to print the multiplication table of a given number.
4. Write a Python program to count the total number of digits in a number.
5. Write a Python program to print the following number pattern:

```
1
22
333
4444
55555
```

6. Write a Python program to display numbers from -10 to -1 using both for loop and while loop.
7. Write a Python program to display all prime numbers within a range.

- 8. Write a Python program to display the Fibonacci series up to 10 terms.**
- 9. Write a Python program to find the factorial of a given number.**
- 10. Write a Python program to reverse a given integer number.**
- 11. Write a Python program to calculate the cube of all numbers from 1 to a given number.**
- 12. Write a Python program to find the sum of the series up to n terms.**