Python Assignment - 01

Dear Students,

Please complete the following Python programming exercises. This assignment is due by Sunday. Make sure to submit it on time.

Assignment Questions:

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 any alphabet and check whether it is vowel or consonant.
8. Write a Python program to check whether a character is uppercase or lowercase alphabet.
9. Write a Python program to input the week number and print weekday.
10. Write a Python program to input the month number and print the number of days in that month.
11. Write a Python program to count the minimum number of notes in a given amount.
12. Write a Python program to input marks of five subjects: Physics, Chemistry, Biology, Mathematics, and Computer. Calculate percentage and grade according to the following:
   Percentage >= 90% : Grade A
   Percentage >= 80% : Grade B
   Percentage >= 70% : Grade C
   Percentage >= 60% : Grade D
   Percentage >= 40% : Grade E
   Percentage < 40% : Grade F
13. Write a Python program to input the basic salary of an employee and calculate its Gross salary according to the following:

Basic Salary <= 10000 : HRA = 20%, DA = 80%
Basic Salary <= 20000 : HRA = 25%, DA = 90%
Basic Salary > 20000 : HRA = 30%, DA = 95%

14. Write a Python program to input electricity unit charges and calculate total electricity bill according to the given condition:
For the first 50 units Rs. 0.50/unit
For the next 100 units Rs. 0.75/unit
For the next 100 units Rs. 1.20/unit
For units above 250 Rs. 1.50/unit
An additional surcharge of 20% is added to the bill

15. Write a Python program to check whether a number is a prime number.

16. Write a Python program to print the multiplication table of a given number.

17. Write a Python program to calculate the factorial of a given number using if-else.

Submission Link:

https://docs.google.com/forms/d/e/1FAIpQLSckc_0luFkfJFJ8e3wi8HlohR69rcMiUsgGR4Nj01TQHIcotQ/viewform?usp=header