

Assignment 2

Due Date: 27 December 2024

You are required to answer **10 questions** from the following list. Each answer should be well-structured and demonstrate a clear understanding of the topic.

Submission Instructions:

You may submit the softcopy of your assignment via the provided submission platform. However, please note the following:

- Your submission must pass the AI detection test and threshold for the assignment is set to **10%**.
- The plagiarism threshold for the assignment is set to **20%**. Any submission exceeding this threshold will be subject to review.

Note: This assignment will contribute **15%** towards the internal final marks for the category of **Assignment** for the course.

Questions

1. Write a program to check if a number is prime or not.
2. Write a program that takes three numbers as input and finds the largest among them.
3. Write a program to print the multiplication table of a given number up to 10.
4. Write a program that calculates the sum of digits of a number.
5. Write a program that counts the number of vowels and consonants in a given string.
6. Write a program to generate the Fibonacci series up to a given number of terms.
7. Write a program to check if a number is a perfect number. A perfect number is one where the sum of its divisors (excluding the number itself) is equal to the number.
8. Write a program to reverse a string without using Python's built-in reverse functions.
9. Write a program to check if a given number is a palindrome (it reads the same backward as forward).
10. Write a program to find the Greatest Common Divisor (GCD) of two numbers.