

## Assignment Day 1

1. **Print Numbers from 1 to 10:** Write a program to print numbers from 1 to 10 using a `for` loop.
2. **Sum of First N Natural Numbers:** Write a program to calculate the sum of the first N natural numbers, where N is provided by the user.
3. **Factorial of a Number:** Write a program to find the factorial of a given number using a `for` loop.
4. **Print Even Numbers between 1 and 20:** write a program to print all even numbers between 1 and 20.
5. **Multiplication Table:** Write a program to print the multiplication table of a number provided by the user.
6. **Reverse a String:** Write a program to reverse a string using a `for` loop.
7. **Count Vowels in a String:** Write a program to count the number of vowels in a given string.
8. **Check Prime Number:** Write a program to check if a given number is prime.
9. **Find the Largest Number in an Array:** Write a program to find the largest number in a given array.
10. **Sum of Elements in an Array:** Write a program to calculate the sum of all elements in an array.
11. **Fibonacci Sequence:** Write a program to generate the first N terms of the Fibonacci sequence.
12. **Palindrome Check:** Write a program to check if a given string is a palindrome.
13. **Count Digits in a Number:** Write a program to count the number of digits in a given number.