For Loop Assignment Questions

This document outlines a set of programming assignments focused on utilizing the `for` loop structure.

Basic Iteration and Output

1. Print numbers from 1 to 10 using a `for` loop.
2. Print all even numbers between 1 to 50.
3. Print all odd numbers between 1 to 50.
4. Print numbers from 10 to 1 (reverse order).

Mathematical Operations

1. Print the multiplication table of 5 (from 1 to 10).
2. Take a number input and print its multiplication table up to 10.
3. Print the sum of first 10 natural numbers.
4. Take a number input n and print the sum of numbers from 1 to n.
5. Print squares of numbers from 1 to 10.
6. Print cube of each number from 1 to 10.
7. Print the factorial of a given number using a `for` loop.
8. Take 5 numbers from user and print their total sum.

String and Digit Manipulation

1. Print all characters of a string one by one in each line.
2. Count the number of vowels in a given string using a loop.
3. Take a number input and count how many digits it has.