**Structured Programming Language Sessional**

**Course Code: CSE 106**

**Lab -4 Practice**

**Problem-1. Write a program in C to read 10 numbers from keyboard and find their sum and average.**

**Problem-2. Write a program in C to display the multiplication table of a given integer**

**example:**

**Please enter a number: 7**

**Multiplication Table:**

**7 x 1 = 7**

**7 x 2 = 14**

**...**

**7 x 10 = 70**

**Problem-3. Write a C Program to Display Factors of a Number.**

**[For input: 6, the outputs will be 1, 2, 3, 6]**

**Problem-4. Write a C Program to Check Whether a Number is Prime or Not**

**[Prime Number-A number which does have any other divisors except 1 and itself]**

**Problem-5. Write a C Program to Check Whether a Number is Perfect number or Not**

**[Perfect number is a positive number which sum of all positive divisors excluding that number is equal to that number. For example 6 is a perfect number since divisor of 6 is 1, 2 and 3. Sum of its divisor is 1 + 2+ 3 =6]**

**Problem-6. Write a C Program to Check Whether a Number is Palindrome or Not**

**[A number is palindrome if it is equal to the reverse of it. Eg. 13531 or 131 or 1331 is a palindrome, but 1321 is not]**

**Problem-7. Write a C Program to Check Armstrong Number**

**C Program to Check Armstrong Number In case of an Armstrong number of 3 digits, the sum of cubes of each digits is equal to the number itself. For example: A positive integer is called an Armstrong number of order n if abc... = an + bn +cn + ...In case of an Armstrong number of 3 digits, the sum of cubes of each digits is equal to the number itself. For example: 153 = 1\*1\*1 + 5\*5\*5 + 3\*3\*3**

**Problem-8. Write a C Program to Reverse a Number.**

**[For input: 1426, Output will be 6241]**

**Problem-9. Write a C Program to Display Fibonacci Sequence upto nth term**

**[Fibonacci Sequence: 0 1 1 2 3 5 8 13 21 34 ... ... ...]**

**Problem-10. Write a C Program to Find Factorial of a Number.**

**[n! = 1 x 2 x 3 x ... x n]**

**Problem-11. Write a C Program to Find the sum of the digits of a number**

**[For input: 1253, output: 11, because 1 + 2 + 5 + 3 = 11]**