

Introduction to Computing Laboratory

Assignment – 5

1. Write a program in C to find the value of x^n where the inputs x and n are integers.
2. Write a program in C to find the sum of the digits of any valid integer number.
3. Write a program in C to check whether a given number is prime or not.
4. Write a program in C to check whether a given number is perfect or not.
5. Write a program in C to print all the Armstrong numbers in the range *low* to *high* where *low* and *high* ($low < high$) are two input integer numbers.
6. Write a program in C that will repetitively prompt the user to enter a character through keyboard and print the ASCII value of that character. This repetitive process will terminate as soon as the user will input the character '*q*'.
7. Write programs in C to evaluate the following where the value of n will be accepted as input.

(a) $S = 1 - 2 + 3 - 4 + \dots n \text{ terms.}$

(b) $S = \sum_{i=1}^n \frac{1}{i}$