



भारतीय सूचना प्रौद्योगिकी संस्थान गुवाहाटी
Indian Institute of Information Technology Guwahati
COMPUTER PROGRAMMING LAB (CS110)
ASSIGNMENTS-04

1. Write a program in C to check an input character is in which category of the following two:
 - i. Category 1: A small letter or a vowel.
 - ii. Category 2: A capital letter or a consonant.

For example if a user enters “b”, output will be “Category 1”.
2. Print sum of numbers between 1 to 100 using `while` loop.
3. Print all even numbers between 1 to 100 using `for` loop.
4. Write a program to find whether an input number is prime or not using `while` loop.
5. Write a C program to print all prime numbers between a and b , where a and b are positive integer and $a < b$ using `while` loop.
6. Write a C program to print all 3 digit Armstrong numbers. Armstrong number is a number that is equal to the sum of cubes of its digits using `for` loop. For example, 153 and 407 are the Armstrong numbers.
7. Write a program in C to find the greatest common divisor (GCD) of two positive integers using `for` loop.
8. Write a program in C to find x^n for a given positive real value x and a positive integer n using `for` loop.