**KGiSL INSTITUTE OF TECHNOLOGY: COIMBATORE**

(Approved by AICTE & Affiliated to Anna University, Chennai)

NAME : …………………………………………….…….

REG NO : …………………………………………………..

SUBJECT : …………………………………………………..

COURSE : …………………………………………………..

**Dept. of Computer Science and Engg.**

**KGiSL Institute of Technology**

**Saravanampatti, Coimbatore-35**

**KGiSL INSTITUTE OF TECHNOLOGY: COIMBATORE**

(Approved by AICTE & Affiliated to Anna University, Chennai)

**CS8261 C Programming Laboratory**

NAME : CLASS :

UNIVERSITY REG NO :

Certified that, this is a bonafide record of work done by …………………………………………………………. of **Computer Science & Engineering** branch in **C Programming Laboratory**, during **Second** semester of academic year 2017-2018.

**Faculty Head of the Department**

Submitted during Anna University Practical Examination held on ………….………. at KGiSL Institute of Technology, Coimbatore – 641 035.

**Internal Examiner External Examiner**

**INDEX**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Sl.No** | **DATE** | **LIST OF THE EXPERIMENTS** | **PAGE NO** | **MARKS** | **SIGNATURE** |
| 1 |  | Programs using I/O statements and expressions |  |  |  |
| 2 |  | Programs using decision-making constructs |  |  |  |
| 3 |  | Program to find whether the given year is leap year or Not |  |  |  |
| 4 |  | Program to implement Simple Calculator |  |  |  |
| 5 |  | Program to Check Armstrong number or not |  |  |  |
| 6 |  | Program to sort the numbers based on weights |  |  |  |
| 7 |  | Program to Calculate how many persons are above the average height using array |  |  |  |
| 8 |  | Program to compute the Body Mass Index of the individuals |  |  |  |
| 9 |  | Program to reverse string without changing the position of special characters |  |  |  |
| 10 |  | Program to Convert decimal number into binary, octal and hexadecimal numbers |  |  |  |
| 11 |  | From a given paragraph perform the following using built-in functions:  a. Find the total number of words.  b. Capitalize the first word of each sentence.  c. Replace a given word with another word. |  |  |  |
| 12 |  | Program to Solve towers of Hanoi using recursion |  |  |  |
| 13 |  | Program to Sort the list of numbers using pass by reference |  |  |  |
| 14 |  | Generate salary slip of employees using structures and pointers |  |  |  |
| 15 |  | Program to compute internal marks of five students |  |  |  |
| 16 |  | Program to implement telephone directory using random access file |  |  |  |
| 17 |  | Program to implement sequential access file |  |  |  |

**Ex No: 1(a) PROGRAMS USING I/O STATEMENTS AND Date: EXPRESSIONS**

**ARMSTRONG NUMBER**

**AIM**

To write a C program to generate Armstrong number from 1 – 1000 using conditional and control statements.

**ALGORITHM**

Step 1: Start the program

Step 2: Include the necessary header files

Step 3: Declare the necessary variables

Step 4: Using for loop, parse the value from 1 to 1000

Step 5: Using while loop, run for each digit of number and find rem^3 and add it to sum

Step 6: If sum of rem^3 = number then goto Step 7

Step 7: Print the Armstrong number

Step 8: Stop the program

**PROGRAM**

**OUTPUT**

**RESULT**

Thus the C program to generate Armstrong number has been executed successfully.