

Final Lab Test

CSE 126: Structured Programming Language Lab

Time: 1.30 hour

Marks: 40

Solve any 4 problems

1. Write a C program to accept two integers and check whether they are equal or not.

Input : 15 15

Expected Output : Number1 and Number2 are equal

Input : 15 -15

Expected Output : Number1 and Number1 are not equal

2. Write a C program to check whether an alphabet is a vowel or consonant.

Test Data :

k

Expected Output :

The alphabet is a consonant.

3. Write a program in C to make such a pattern like right angle triangle with a number which will repeat a number in a row. The pattern like :

1

22

333

4444

4. Write a program in C to find the sum of all elements of the array.

Test Data :

Input the number of elements to be stored in the array :3

Input 3 elements in the array :

element - 0 : 2

element - 1 : 5

element - 2 : 8

Expected Output :

Sum of all elements stored in the array is : 15

5. Write a program in C to find the number and sum of all integer between 100 and 200 which are divisible by 9.

Expected Output :

Numbers between 100 and 200, divisible by 9 :

108 117 126 135 144 153 162 171 180 189 198

The sum : 1683

6. Write a program in C to make such a pattern like a pyramid with a number which will repeat the number in the same row.

1

2 2

3 3 3

4 4 4 4

7. Write a program in C for a 2D array of size 3x3 and print the matrix.

Test Data :

Input elements in the matrix :

element - [0],[0] : 1

element - [0],[1] : 2

element - [0],[2] : 3

element - [1],[0] : 4

element - [1],[1] : 5

element - [1],[2] : 6

element - [2],[0] : 7

element - [2],[1] : 8

element - [2],[2] : 9

Expected Output :

The matrix is :

1 2 3

4 5 6

7 8 9

8. Write a program in C to find the sum of the series 1+11+111+1111+...n terms.

Test Data :

Input the number of terms : 5

Expected Output :

1 + 11 + 111 + 1111 + 11111

The Sum is : 12345