VIT - Vellore

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BCSE102P_Structured and Object Oriented Programming Lab_VL2024250502365

VIT V_Structured and OOP_Lab 4_COD_Medium_Pointers to Structure

Attempt : 1
Total Mark : 10
Marks Obtained : 10

Section 1 : Coding

1. Problem Statement

The Government takes a census of animals in various locations. They want to collect data on the animal's name, count, and location. To accomplish this, a structure named Animal is created with members for the animal's name, count, and location.

The task is to read the data for N animals and store it in an array of Animal structures in which the structure is accessed through pointers. Then, the program should display the details of the animals found in the location 'India'.

Answer

// You are using GCC

```c
#include<stdio.h>
#include<string.h>
struct Animal{
    char name[50];
    int count;
    char location[50];
};
int main(){
    int n;
    int cnt = 0;
    scanf("%d",&n);
    struct Animal a[20];
    for(int  i = 0; i <n; i++){
        scanf("%s %d %s",&a[i].name[0],&a[i].count,a[i].location);
        if((strcmp(a[i].location,"INDIA") == 0) or (strcmp(a[i].location,"India") == 0) or
(strcmp(a[i].location,"india") == 0)){
            cnt +=1;
        }
    }
    if(cnt > 0){
        for(int i = 0; i < n; i++){
            if((strcmp(a[i].location,"INDIA") == 0) or (strcmp(a[i].location,"India") == 0)
or (strcmp(a[i].location,"india") == 0)){
                printf("%s %d %s\n",a[i].name,a[i].count,a[i].location);
            }
        }
    }
    else{
        printf("No animals found in India");
    }
    return 0;

}
```

Status : Correct   *Marks : 10/10*