VIT - Vellore

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BCSE102P_Structured and Object Oriented Programming Lab_VL2024250502365

VIT V_Structured and OOP_Lab 4_COD_Hard_Pointers to Structure

Attempt : 1
Total Mark : 10
Marks Obtained : 10

Section 1 : Coding

1. Problem Statement

Amanpreet Singh, the school headmaster, wants to create a program to manage student information using structures and pointers. He needs your help in completing the program. He wants to store information about students using a structure and pointers.

The program should handle various tasks such as identifying students of a specific age as exactly 17, finding students with even roll numbers, and retrieving details for a specific roll number.

Note: It is assumed that at least one student is of age 17, at least one student has an even roll number and the roll number to be searched is present in the list.

Answer

```c
// You are using GCC
#include<stdio.h>
struct student{
    int roll_no;
    char name[25];
    int age;
    char address[25];
};
int main(){
    int n;
    int roll;
    scanf("%d",&n);
    struct student s[n];
    for(int i = 0; i  <n; i++){
        scanf("%d %s %d %s",&s[i].roll_no,&s[i].name,&s[i].age,&s[i].address);
    }
    scanf("%d",&roll);
    for(int  i = 0; i < n; i++){
        if (s[i].age == 17){
            printf("%s",&s[i].name);
        }
    }
    printf("\n");
    for(int i = 0; i < n; i++){
        if(s[i].roll_no%2 == 0){
            printf("%s",&s[i].name);
        }
    }
    printf("\n");
    for(int i = 0; i < n; i++){
        if(s[i].roll_no == roll){
            printf("%d %s %d %s",s[i].roll_no,s[i].name, s[i].age,s[i].address);
        }
    }
    return 0;
}
```

Status : Correct   *Marks : 10/10*