TITLE 25

Write a C Program using structure for entering details of the five students as name, admission number, Date of birth, department and display all the details.

OBJECTIVE:

Implementation of the data structures

PROBLEM STATEMENT:

To print the given data using structures.

ALGORITHM:

START

Define variables:

INPUT: Read from the keyboard

COMPUTATION: Computing the details of the students using structures

DISPLAY: Displaying the information of the student

STOP

PROGRAM:

#include <stdio.h>

typedef struct Date{

int month;

int day;

int year;

}date;

typedef struct Student{

char name[30];

int adminNo;

date DOB;

char dept[30];

}student;

int main()

{

student s[5];

int i;

printf("Enter details: \n");

for(i=0;i<5;i++){

printf("Enter\n");

printf("Name");

scanf("%s",s[i].name);

printf("Admin No: ");

scanf("%d",&s[i].adminNo);

printf("Date of Birth:\n");

printf("Date: ");

scanf("%d",&s[i].DOB.day);

printf("Month: ");

scanf("%d",&s[i].DOB.month);

printf("year: ");

scanf("%d",&s[i].DOB.year);

printf("Department: ");

scanf("%s",s[i].dept);

}

printf("\n Details: \n");

for(i=0;i<5;i++){

printf("Name: %s\n",s[i].name );

printf("Admin No: %d\n",s[i].adminNo );

printf("Date of Birth: %d/%d/%d\n",s[i].DOB.day,s[i].DOB.month,s[i].DOB.year);

printf("Department: %s\n\n",s[i].dept);

}

return 0;

}

CONCLUSION:

Structures helps to maintain the complex data and it is the phsical form of the data. By solving this problem we can understand the complexity of datatypes and its implementation.

OUTPUT:

Enter name:Swarna

Enter admission number:1

Enter DOB:25.3.01

Enter department:CSE

Enter name:Haritha

Enter admission number:2

Enter DOB:2.01.02

Enter department:CSE

Enter name:Likhita

Enter admission number:3

Enter DOB:13.08.01

Enter department:CSE

Enter name:Vishal

Enter admission number:4

Enter DOB:22.04.02

Enter department:ECE

Enter name: Shiva

Enter admission number:5

Enter DOB:3.12.01

Enter department:CSE