EEL PROJECT

ASSIGNMENT 3

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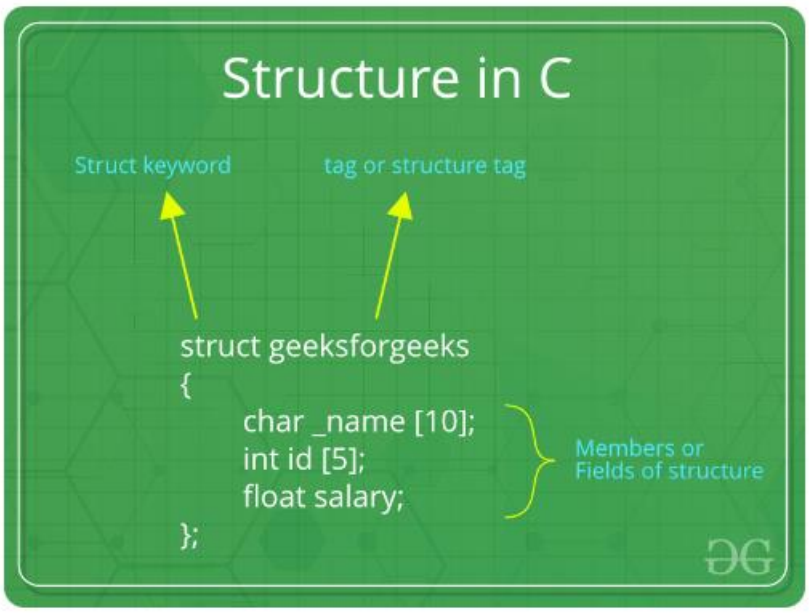
Research

We had created a software in which we are calculating the total expense by the student for his college fees we had used the structure and functions to build this program

We had used these websites for references

1. C Structures - GeeksforGeeks
2. C struct (Structures) (programiz.com)



The above syntax is also called a structure template or structure prototype and no memory is allocated to the structure in the declaration. To understand how structures are foundational to building complex data structures.

Analyse

While creating this programme we were getting compile time and run time error continuously, after discussing among the group members we researched on the problems and found a website called geeks for geeks, it is basically a problem-solving platform where we found the solutions for our problems, thus our errors were rectified.

As we had already mentioned the links of websites referred above for your reference.

Work done by the group members:

Sachin has gathered the information regarding admission process and basic syntax, also helped to rectify the errors (i.e. syntax and compile error) while programming.

Shruti built the programme

Nidhi made the word file and helped withe code

Bhavna helped with the code, word file, gathering information

Ideate

This program helps students to check and track the total expenditure of the entire year for the student

We did the following modifications in the code:

1)we used the structure function in our code.

2)we used display bill function in our program to make it more efficient.

Build

```c
#include <stdio.h>

struct Student {
    int admNo;
    char name[50];
    char branch[50];
    char fatherName[50];
    char motherName[50];
    float tuitionFees;
    float developmentFees;
    float cautionMoney;
    float libraryFees;
    float buildingFees;
    float computerLabFees;
    float sportsFees;
    float medicalFees;
    float otherExpenses;
};

void displayBill(struct Student student) {
    printf("\n--- College Bill Summary ---\n");
    printf("Admission Number: %d\n", student.admNo);
    printf("Student Name: %s\n", student.name);
    printf("Branch: %s\n", student.branch);
    printf("Father's Name: %s\n", student.fatherName);
    printf("Mother's Name: %s\n", student.motherName);

    printf("\n--- Fees Breakdown ---\n");
    printf("Tuition Fees: %.2f\n", student.tuitionFees);
    printf("Development Fees: %.2f\n", student.developmentFees);
    printf("Caution Money: %.2f\n", student.cautionMoney);
    printf("Library Fees: %.2f\n", student.libraryFees);
    printf("Building Fees: %.2f\n", student.buildingFees);
    printf("Computer Lab Fees: %.2f\n", student.computerLabFees);
    printf("Sports Fees: %.2f\n", student.sportsFees);
    printf("Medical Fees: %.2f\n", student.medicalFees);
    printf("Other Expenses: %.2f\n", student.otherExpenses);

    float totalFees = student.tuitionFees + student.developmentFees +
student.cautionMoney +
                      student.libraryFees + student.buildingFees +
student.computerLabFees +
                      student.sportsFees + student.medicalFees +
student.otherExpenses;
```

```
    printf("\nTotal Fees for the Year: %.2f\n", totalFees);
    printf("----------------------------\n");
}

int main() {
    struct Student student;

    // Input student details
    printf("Enter Admission Number: ");
    scanf("%d", &student.admNo);
    printf("Enter Student Name: ");
    getchar();  // to consume newline left by previous input
    fgets(student.name, sizeof(student.name), stdin);
    student.name[strcspn(student.name, "\n")] = 0;  // remove newline
character
    printf("Enter Branch: ");
    fgets(student.branch, sizeof(student.branch), stdin);
    student.branch[strcspn(student.branch, "\n")] = 0;  // remove newline
character
    printf("Enter Father's Name: ");
    fgets(student.fatherName, sizeof(student.fatherName), stdin);
    student.fatherName[strcspn(student.fatherName, "\n")] = 0;  // remove
newline character
    printf("Enter Mother's Name: ");
    fgets(student.motherName, sizeof(student.motherName), stdin);
    student.motherName[strcspn(student.motherName, "\n")] = 0;  // remove
newline character

    // Input fees details
    printf("Enter Tuition Fees: ");
    scanf("%f", &student.tuitionFees);
    printf("Enter Development Fees: ");
    scanf("%f", &student.developmentFees);
    printf("Enter Caution Money: ");
    scanf("%f", &student.cautionMoney);
    printf("Enter Library Fees: ");
    scanf("%f", &student.libraryFees);
    printf("Enter Building Fees: ");
    scanf("%f", &student.buildingFees);
    printf("Enter Computer Lab Fees: ");
    scanf("%f", &student.computerLabFees);
    printf("Enter Sports Fees: ");
    scanf("%f", &student.sportsFees);
    printf("Enter Medical Fees: ");
    scanf("%f", &student.medicalFees);
    printf("Enter Other Expenses: ");
    scanf("%f", &student.otherExpenses);
```

```
    // Display the bill
    displayBill(student);

    printf("thank You");

    return 0;
}
```

Test

SCREENSHOT OF OUR COMPLETE CODE WITH OUTPUTOUTPUT OF OUR CODE

```
firstcprogram.c:56:18: warning: incompatible implicit declaration of bui
lt-in function 'strcspn'
firstcprogram.c:56:18: note: include '<string.h>' or provide a declarati
on of 'strcspn'
Enter Admission Number: 2023
Enter Student Name: ankit
Enter Branch: cse

Enter Father's Name: devendra
Enter Mother's Name: punam
Enter Tuition Fees: 10000
Enter Development Fees: 2000
Enter Caution Money: 20
Enter Library Fees: 300
Enter Building Fees: 6000
Enter Computer Lab Fees: 7000
Enter Sports Fees: 6000
Enter Medical Fees: 6000
Enter Other Expenses: 25

--- College Bill Summary ---
Admission Number: 2023
.00
Library Fees: 300.00
Building Fees: 6000.00
Computer Lab Fees: 7000.00
Sports Fees: 6000.00
Medical Fees: 6000.00
Other Expenses: 25.00

Total Fees for the Year: 37345.00
----------------------------
thank You
PS C:\Users\hp5cd\OneDrive\Desktop\coding\c>
```

Implement

Now we can say that output is implemented and our code is also running successfully.

We can implement the project for the calculation of expense of students.

We know that GitHub is used by many people and in corporate sector. So publishing on GitHub will help us to reach out to a large number of consumers.

Nidhiyadav411/Assignment3