ASSIGNMENT 19

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Q1. Write a program to display details of 2 books

Code:

```c
//this program displays details of 2 books

#include <stdio.h>

struct book{
    char    author[30];
    int     pages;
    float   cost;
};

int main()
{
    struct book b1, b2;

    printf("\nEnter details for book 1\n");
    printf("Author Name :");
    gets(b1.author);
    printf("Number of Pages :");
    scanf("%d",&b1.pages);
    printf("Cost :");
    scanf("%f",&b1.cost);

    printf("\nEnter details for book 2\n");
    printf("Author Name :");
    gets(b2.author);
    printf("Number of Pages :");
    scanf("%d",&b2.pages);
    printf("Cost :");
    scanf("%f",&b2.cost);

    printf("\nEntered details are:");

    printf("\nAuthor Name: %s",b1.author);
    printf("\nNumber of pages: %d",b1.pages);
    printf("\nCost: %.2f\n",b1.cost);

    printf("\nAuthor Name: %s",b2.author);
    printf("\nNumber of pages: %d",b2.pages);
    printf("\nCost: %.2f\n",b2.cost);

    return 0;
}
```

Output:

```
Enter details for book 1
Author Name :A
Number of Pages :200
Cost :2500

Enter details for book 2
Author Name :Number of Pages :300
Cost :4500

Entered details are:
Author Name: A
Number of pages: 200
Cost: 2500.00

Author Name:
Number of pages: 300
Cost: 4500.00
```

Q2. Write a program to display details and average salary of employees
Code:

```c
//this program defines a structure of employee having data members name,number,age,salary and displays
average salary
#include <stdio.h>

struct employee
{
    char name[20];
    int number, age;
    float salary;
};
int main()
{
    int n, i;
    float avg, sum=0;
    struct employee e[10];
    printf("Enter number of inputs: ");
    scanf("%d", &n);

    for(i=0;i<n;i++)
    {
        printf("Enter name, number, age and salary of employee %d: ", i+1);
        scanf("%s %d %d %f", e[i].name, &e[i].number, &e[i].age, &e[i].salary);
    }
    for(i=0;i<n;i++)
    {
        printf("Name: %s", e[i].name);
        printf("\nNumber: %d", e[i].number);
        printf("\nAge: %d", e[i].age);
        printf("\nSalary: %.2f", e[i].salary);
        printf("\n");
    }
    for(i=0;i<n;i++)
    {
        sum += e[i].salary;
    }
    avg = sum/n;
    printf("Average Salary: %.2f", avg);
    return 0;
}
```

Output:

```
Enter number of inputs: 3
Enter name, number, age and salary of employee 1: A 101 25 60000
Enter name, number, age and salary of employee 2: B 102 27 70000
Enter name, number, age and salary of employee 3: C 103 28 80000
Name: A
Number: 101
Age: 25
Salary: 60000.00
Name: B
Number: 102
Age: 27
Salary: 70000.00
Name: C
Number: 103
Age: 28
Salary: 80000.00
Average Salary: 70000.00
```