Institute of Engineering Science and Technology, Shibpur.

Department of Information Technology

Programming Lab

BATCH- HY

Assignment – 4

https://github.com/Tathagata-Ghosh-Developer/Lab-Assignment-3rd-Semester

```c
/* Programming Lab Assignment 2021
Tathagata Ghosh --- 2020ITB065 ---- HY
01/10/2021 */

/*
I hope you have learned how a structure in C can be defined and also accessing
 the members of the structure using a variable.
Now use pointer to a structure to access the members of that structure. Write
a program in C to demonstrate this.*/
#include <stdio.h>
#include <string.h>


typedef struct farmer
{
    char name[30];
    char crop[30];
    int stock;
} frmr;

int main()
{
    printf("Enter number of farmers to tabulate information for: ");
    int n, i;
    scanf("%d", &n);
    frmr f[n];
    printf("\nEnter the names of the farmer\n");
    for(i=0; i<n; i++)
    {
        printf("Enter name of Farmer %d\n", i+1);
        scanf("%s", &f[i].name);
    }
    printf("\nEnter the name of the crop grown by farmer respectively\n");
    for(i=0; i<n; i++)
```

```c
{
        printf("Enter crop name of Farmer %d\n" ,i+1);
        scanf("%s", &f[i].crop);
    }
    printf("\nEnter the amout of stock available of crop in kg\n");
    for(i=0; i<n; i++)
    {
        printf("Enter crop name of Farmer %d\n", i+1);
        scanf("%d", &f[i].stock);
    }
    printf("\n\nHere are the details of Farmers\n\n");
    printf("\nNAME\tCROP GROWN\tSTOCK\n");
    for(i=0; i<n; i++)
    {
        printf("%s\t%s\t\t%d\t", f[i].name, f[i].crop, f[i].stock);
        printf("\n");
    }
    return 0;
}
```

```
PS D:\C Programs> cd "d:\C Programs\" ; if ($?) { gcc Farmer.c -o Farmer } ; if ($?) { .\Farmer }
Enter number of farmers to tabulate information for: 3

Enter the names of the farmer
Enter name of Farmer 1
tat
Enter name of Farmer 2
yung
Enter name of Farmer 3
raj

Enter the name of the crop grown by farmer respectively
Enter crop name of Farmer 1
rice
Enter crop name of Farmer 2
wheat
Enter crop name of Farmer 3
barley

Enter the amout of stock available of crop in kg
Enter crop name of Farmer 1
100
Enter crop name of Farmer 2
50
Enter crop name of Farmer 3
90


Here are the details of Farmers


NAME    CROP GROWN    STOCK
tat     rice          100
yung    wheat         50
raj     barley        90
PS D:\C Programs>
```