PPS Class Activity

Department of CSE Certified that this is a Bonafide Record of the word done by:

V. Sai Sumedha -23WH1A05F0
P. Mounika -23WH1A05E1
N. Sri Vidhya -23WH1A05F1
K.Sri Vidhya -23WH1A05I8

Of Class CSE C of Year 1 of Semester 1 in PPS Laboratory

Date: *Signature:*

PROBLEM STATEMENT:

C Program to display the product inventory of items in a store

This is a basic C program that demonstrates the use of `struct` datatype to record different elements of different datatype . Here, we are creating a shop inventory to include the products ie., item's name, price, quantity, etc , and to display it in a table format like billing software.

SOURCE CODE

```c
#include <stdio.h>


void main()
{
  struct date
  {
    int day;
    int month;
    int year;
  };
  struct details
  {
    char name[20];
    int price;
    int code;
    int qty;
    struct date mfg;
  };
  struct details item[50];
  int n, i;

  printf("Enter number of items:");
  scanf("%d", &n);
  fflush(stdin);
  for (i = 0; i < n; i++)
  {
    fflush(stdin);
```

```c
        printf("Item name: \n");

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

        fflush(stdin);

        printf("Item code: \n");

        scanf("%d", & item[i].code);

        fflush(stdin);

        printf("Quantity: \n");

        scanf("%d", & item[i].qty);

        fflush(stdin);

        printf("price: \n");

        scanf("%d",  & item[i].price);

        fflush(stdin);

        printf("Manufacturing date(dd-mm-yyyy): \n");

        scanf("%d-%d-%d", & item[i].mfg.day, & item[i].mfg.month, & item[i].mfg.year);

    }
    printf("          *****  INVENTORY ***** \n");

    printf("-------------------------------------------------------------------\n");

    printf("S.N.|   NAME        |  CODE  | QUANTITY | PRICE| MFG.DATE \n");

    printf("-------------------------------------------------------------------\n");

    for (i = 0; i < n; i++)

        printf("%d    %-15s      %-d        %-5d    %-5d %d/%d/%d \n", i + 1, item[i].name,

item[i].code, item[i].qty, item[i].price, item[i].mfg.day, item[i].mfg.month, item[i].mfg.year);

    printf("-------------------------------------------------------------------\n");

}
```

OUTPUT

```
Enter number of items:5

Item name:Tea Powder
Item code:123
Quantity:23
price:40
Manufacturing date(dd-mm-yyyy):12-03-2007

Item name:Milk Powder
Item code:345
Quantity:20
price:80
Manufacturing date(dd-mm-yyyy):30-03-2007

Item name:Soap Powder
Item code:510
Quantity:10
price:30
Manufacturing date(dd-mm-yyyy):01-04-2007

Item name:Washing Soap
Item code:890
Quantity:25
price:12
Manufacturing date(dd-mm-yyyy):10-03-2007

Item name:Shampoo
Item code:777
Quantity:8
price:50
Manufacturing date(dd-mm-yyyy):17-05-2007
```

```
     *****  INVENTORY *****
------------------------------------------------------------------------
S.N.|    NAME        |   CODE   | QUANTITY |  PRICE  |MFG.DATE
------------------------------------------------------------------------
1      Tea Powder        123        23         40       12/3/2007
2      Milk Powder       345        20         80       30/3/2007
3      Soap Powder       510        10         30       1/4/2007
4      Washing Soap      890        25         12       10/3/2007
5      Shampoo           777        8          50       17/5/2007

------------------------------------------------------------------------
```