NAME:SRINISHAS ROLL NO:R #2111017010022 DEPT:EIE TOPIC: INVENTORY MANAGEMENT SYSTEM

CPROGRAM TO STORE INVENTORY SYSTEM USING STRUCTURES



- ✓ The project inventory management system explains how to create a system's user interface without using the C Graphics library.
- ✓ In order to define inventory items, the program uses the idea of **structures**.
- ✓ It also employs several C concepts, such as file operations, looping and branching constructs, and string manipulation routines, to great use.

Features of Inventory Management System

- ❖ Add Product For the add product, the user can add products details.
- ❖ View Products For the view product, the user can view all the new products added.
- Delete Product For the delete product, the user can delete their product information.
- Modify Products For the modify products, the user can modify products information.
- **Exit** For the exit, the user can also exit in the system.

Structure is a collection of different datatype variables, grouped together under a single name.

Features of structure

The features of structure in the C programming language are as fo	llows,
It is possible to copy the contents of all the structure elements of datatypes to another structure variable of its type by using an a operator.	
☐ For handling the complex datatypes, it is better to create structure another structure, which is called nested structures.	ture within
□ It is possible to pass an entire structure, individual elements o and an address of structure to a function.	f structure
☐ It is possible to create structure pointers.	

Program

Following is the C program to store an inventory system by using the structures,

```
#include<stdio.h>
#include<conio.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);
       printf("Item name:");
       scanf("%s",item[i].name);
       fflush(stdin);
       printf("Item code:");
       scanf("%d", &item[i].code);
       fflush(stdin);
       printf("Quantity:");
       scanf("%d", &item[i].qty);
       fflush(stdin);
       printf("price:");
       scanf("%d", &item[i].price);
       fflush(stdin);
       printf("Manufacturing date(dd-mm-yyyy):");
       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");
getch();
}</pre>
```

Output When the above program is executed, it produces the following result –

```
Enter number of items: 5
Item name:pen
Item code:12
Quantity:50
price:25
Manufacturing date (dd-mm-yyyy):12-02-2020
Item name:pencil
Item code:15
Quantity:100
price:30
Manufacturing date (dd-mm-yyyy):11-03-2020
Item name:book
Item code: 34
Quantity:30
price:60
Manufacturing date (dd-mm-yyyy):15-04-2020
Item name:bag
Item code:39
Quantity:20
price:70
Manufacturing date (dd-mm-yyyy):12-03-2021
Item name:sharpner
Item code:33
Quantity:20
price:40
Manufacturing date (dd-mm-yyyy):12-04-2021
```

S.N. | NAME | CODE | QUANTITY | PRICE | MFG.DATE pen 12 50 25 12/2/2020 2 30 pencil 15 100 11/3/2020 3 book 34 30 60 15/4/2020 bag 39 70 20 12/3/2021 4 5 40 12/4/2021 sharpner 33 20