

## Experiment 4

### ALGORITHM

Step 1: Start

Step 2: Declare the file pointer fp.

Step 3: Declare structure Asset with variables “no”, “name” and “price”.

Step 4: Declare variables choice of type integer.

Step 5: open the file in append mode using fopen instruction.

Step 6: call the do while loop  
          read the input Asset no, Asset name, Asset price.

Step 7: print the message to add new record and read the input.

Step 8: close the file and stop.

### **Code :-**

```
//implement a simple inventory using data files in c
```

```
#include<stdio.h>
```

```
int main()
```

```
{
```

```
    FILE *fp;                //declare the file pointer
```

```
    typedef struct           //declare the Asset structure
```

```
    {
```

```
        int no;
```

```
        char name[20];
```

```
float price;
}Asset;

Asset a;
int choice;
fp=fopen("inv.txt","a");           //open the file
if(fp==NULL)
{
    printf("file does not exist\n");    //check the availability of
                                        file
    return;
}
do
{
    //read the inputs
    printf("\n enter the Asset no:");
    scanf("%d",&a.no);
    fprintf(fp,"Asset no=%d\n",a.no);

    printf("\n enter the Asset name:");
    scanf("%s",&a.name);
    fprintf(fp,"Asset name=%s\n",a.name);

    printf("\n enter the Asset price:");
```

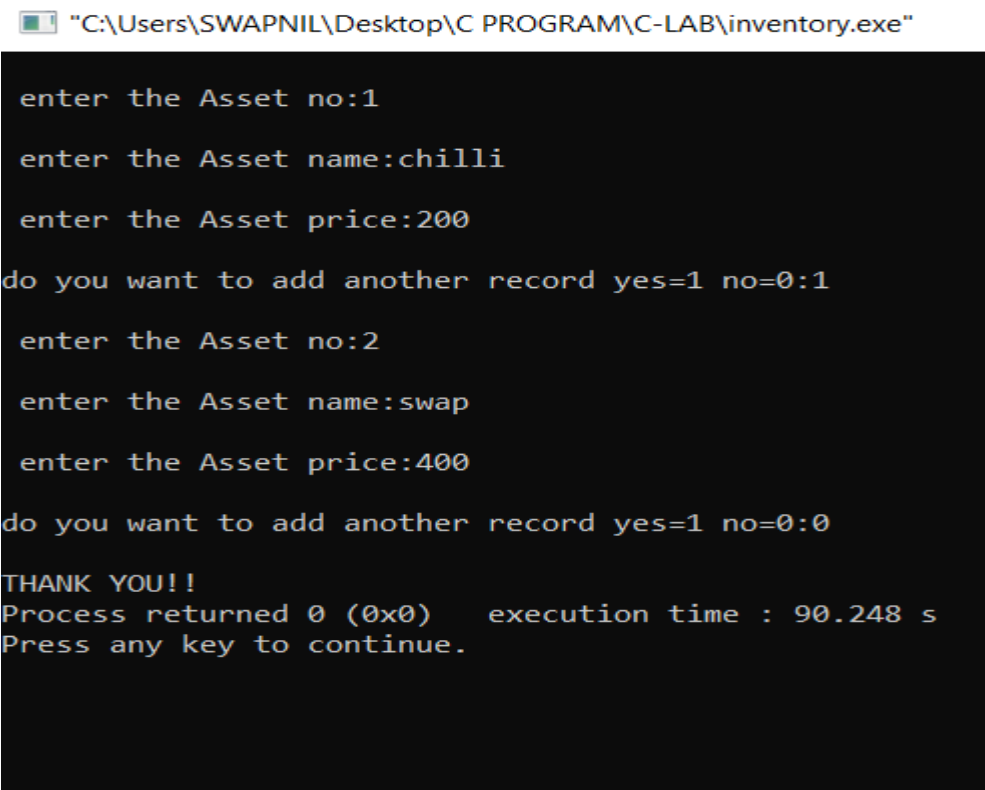
```

scanf("%f",&a.price);
fprintf(fp,"Asset price=%0.2f\n",a.price);

printf("\ndo you want to add another record yes=1 no=0:");
scanf("%d",&choice);
}while(choice);
printf("\nTHANK YOU!!");
fclose(fp);                                //close the file
return 0;}

```

## OUTPUT:



The screenshot shows a Windows command prompt window titled "C:\Users\SWAPNIL\Desktop\C PROGRAM\C-LAB\inventory.exe". The program prompts the user to enter asset details. The first record has asset no:1, name:chilli, and price:200. The user chooses to add another record (yes=1). The second record has asset no:2, name:swap, and price:400. The user chooses not to add another record (no=0). The program then displays "THANK YOU!!", the process return code, execution time, and a prompt to press any key to continue.

```

C:\Users\SWAPNIL\Desktop\C PROGRAM\C-LAB\inventory.exe
enter the Asset no:1
enter the Asset name:chilli
enter the Asset price:200
do you want to add another record yes=1 no=0:1
enter the Asset no:2
enter the Asset name:swap
enter the Asset price:400
do you want to add another record yes=1 no=0:0
THANK YOU!!
Process returned 0 (0x0)   execution time : 90.248 s
Press any key to continue.

```

