Experiment 4

**INVENTORY**

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.

**Program**

//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;

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

Asset a;//a is of type structure ASSET

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);//read asset number

fprintf(fp,"Asset no=%d\n",a.no);

printf("\n enter the Asset name:");

scanf("%s",&a.name);//read asset name

fprintf(fp,"Asset name=%s\n",a.name);

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

scanf("%f",&a.price);//read asset 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);//input choice

}while(choice);

printf("\nTHANK YOU!!");

fclose(fp); //close the file

return 0;

}

**SAMPLE INPUT OUTPUT**

