EX :20	**PROGRAM TO COUNT THE NUMBER OF ACCOUNT HOLDERS WHOSE BALANCE IS LESS THAN THE MINIMUM BALANCE USING SEQUENTIAL ACCESS FILE**
DATE:	

AIM:

      To count the number of account holders whose balance is less than the minimum balance using sequential access file.

ALGORITHM :

   Step 1 : Start the program

   Step 2 : Read choice to insert records & count minimum balance account

        1. If choice is 1, then

- Open a dat file in write mode
- Read the No. of records
- Write the records into the file using fprintf() function
- Close the file

        2. If Choice is 2, then

- Open the file in Read mode
- Read the records one by one using fscanf(0 function until reach the end of file.
- Check the account balance with min bal.
- If account balance is less than min balance, then display the account details
- Close the file

   Step 3 : Stop the program

PROGRAM:

```c
#include <stdio.h>

void insert(); void
count();
int main(void)
{  int  choice  =  0;
  while (choice != 3)
  { printf("\n1 insert
    records\n");
```

```c
            printf("2 Count min balance holders\n");
            printf("3 Exit\n"); printf("Enter
            choice:"); scanf("%d", &choice);

switch(choice)
            { case 1: insert(); break; case 2: count();
             break;
            }
          }
        }

        void insert()
        { unsigned int account,i; char name[30];
          double balance; FILE* cfPtr;

          if ((cfPtr = fopen("clients.dat", "w")) == NULL) {
           puts("File could not be opened");
          } else {
           int records,i=0;
           printf("Enter the No. of records ");
           scanf("%d", &records); while (i<records)
            { printf("Enter the account, name, and balance."); scanf("%d%29s%lf",
             &account, name, &balance); fprintf(cfPtr, "%d %s %.2f\n", account,
             name, balance); i++;
            } fclose(cfPtr);
          }
        }

        void count()
        { unsigned int account; char name[30];
          double balance; float minBal =
          5000.00;
          int count = 0; FILE *cfPtr;
          if ((cfPtr = fopen("clients.dat", "r")) ==
          NULL)
           printf("File could not be opened"); else
```

```
    {
  printf("%-10s%-13s%s\n", "Account", "Name", "Balance"); fscanf(cfPtr,
   "%d%29s%lf", &account, name, &balance);

  while (!feof(cfPtr))
  { if (balance < minBal)
    { printf("%-10d%-13s%7.2f\n", account, name, balance); count++;
    } fscanf(cfPtr, "%d%29s%lf", &account, name, &balance);
  }

  fclose(cfPtr); printf("The number of account holders whose balance is less than the minimum balance:
%d", count); }
  }
```

OUTPUT:

1 insert records
2 Count min balance holders
3 Exit
Enter choice:1
Enter the No. of records 2
Enter the account, name, and balance.1001 A 10000
Enter the account, name, and balance.1002 B 300

1 insert records
2 Count min balance holders
3 Exit
Enter choice:2
 Account Name   Balance
1002   B   300.00
The number of account holders whose balance is less than the minimum balance: 1 1 insert
records
2 Count min balance holders
3 Exit
Enter choice: *

RESULT :

        Thus the C Program to count the number of account holders whose balance is less than the minimum balance using sequential access file