

# DEPARTMENT STORE

This mini project is about department store all features required **for** department store are added in **this** programme. You can copy the source code **and** compile it in a code block. This project is perfect **for** your college mini project in C.

```
#include<stdio.h>
#include<conio.h>
#include<stdlib.h>
#include<string.h>
#include<ctype.h>
#include<windows.h>

#define ANS 15
#define ACS 4
COORD coord={0,0}; // this is global variable
//center of axis is set to the top
left cornor of the screen
void gotoxy(int x,int y)
{
    coord.X=x;
    coord.Y=y;
    SetConsoleCursorPosition(GetStdHandle(STD_OUTPUT_HANDLE),coord);
}
/*declaration of checking functions*/
void c_code(char[]);
int check(char[]);

/*structure declaration*/
typedef struct{
    char name[ANS],code[ACS];
    float rate;
    int quantity;
}rec;
```

```

rec item;

/*declaration of display functions*/
void curser(int);
void dbill();
void d_mainmenu();
void display(rec *,int,int);
void window(int,int,int,int);
void dis_con();
void d_search();
void highlight(int,int);

/*declaration of main menu functions*/
void bill() ;
void edit();
void add();
void del();
void exit();

/*declaration of display submenu functions*/
void d_code();
void d_rate();
void d_quan();
void d_all();

/*start of main*/
int main()
{
    d_mainmenu();
    return 0;
}

void d_mainmenu()
{
    int i;
    char ch;

```

```

    const char *menu[]={ "    Calculate Bill", "    Add Goods", "    Edit Goods", "
Display All ", "    Search", "    Delete Goods", "    Exit"};
    system("cls");
    //textbackground(11);
    //textcolor(0);
    //_setcursortype(_NOCURSOR);
    window(25,50,20,32);
    gotoxy(33,18);printf("MAIN MENU");
    for (i=0;i<=6;i++){
        gotoxy(30,22+i+1);printf("%s\n\n\n",menu[i]);}
    curser(7);
}

```

```

void d_search()
{
    char ch;
    int i;
        const char *menu[]={ "    By Code", "    By Rate", "    By Quantity", "
Back to main menu"};
    system("cls");
    //textbackground(11);
    //textcolor(0);
    window(25,50,20,32);
    gotoxy(33,18);printf("SEARCH MENU");
    for (i=0;i<=3;i++){
        gotoxy(30,22+i+1);printf("%s\n\n\n",menu[i]);}
    curser(4);
}

```

/\*function for cursor movement\*/

```

void curser(int no)
{
    int count=1;
    char ch='0';
    gotoxy(30,23);
    while(1){
        switch(ch){
            case 80:

```

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        count++;
        if (count==no+1) count=1;
        break;
    case 72:
        count--;
        if(count==0) count=no;
        break;
    }
    highlight(no,count);
    ch=getch();
    if(ch=='\r'){
        if(no==7){
            if (count==1) bill() ;
            else if(count==2) add();
            else if(count==3) edit();
            else if (count==4) d_all();
            else if (count==5) d_search();
            else if (count==6) del();
            else    exit(0);
        }
        if(no==4){
            if (count==1) d_code();
            else if (count==2)d_rate();
            else if (count==3) d_quan();
            else d_mainmenu();
        }
    }
}

```

```

void highlight(int no,int count)
{
    if (no==4){
        //textbackground(11);
        //textcolor(0);
        gotoxy(30,23);printf("    By Code        ");
        gotoxy(30,24);printf("    By Rate        ");
        gotoxy(30,25);printf("    By Quantity    ");
    }
}

```

```

gotoxy(30,26);printf("    Back to main menu");
//textcolor(0);
//textbackground(2);
switch (count)
{
    case 1:
        gotoxy(30,23);
        printf(" - By Code          ");
        break;
    case 2:
        gotoxy(30,24);
        printf(" - By Rate          ");
        break;
    case 3:
        gotoxy(30,25);
        printf(" - By Quantity      ");
        break;
    case 4:
        gotoxy(30,26);
        printf(" - Back to main menu");
        break;
}
}

```

```

if(no==7){
    //textbackground(11);
    //textcolor(0);
    gotoxy (30,23);printf("    Calculate Bill ");
    gotoxy (30,24);printf("    Add Goods      ");
    gotoxy (30,25);printf("    Edit Goods     ");
    gotoxy (30,26);printf("    Display All    ");
    gotoxy (30,27);printf("    Search         ");
    gotoxy (30,28);printf("    Delete Goods   ");
    gotoxy (30,29);printf("    Exit           ");
    //textcolor(0);
    //textbackground(2);
    switch(count){
        case 1:

```

```

        gotoxy (30,23);
        printf(" - Calculate Bill ");
        break;
    case 2:
        gotoxy (30,24);
        printf(" - Add Goods ");
        break;
    case 3:
        gotoxy (30,25);
        printf(" - Edit Goods ");
        break;
    case 4:
        gotoxy (30,26);
        printf(" - Display All ");
        break;
    case 5:
        gotoxy (30,27);
        printf(" - Search ");
        break;
    case 6:
        gotoxy (30,28);
        printf(" - Delete Goods ");
        break;
    case 7:
        gotoxy (30,29);
        printf(" - Exit ");
        break;
    }
}
}
}

```

```

void bill()
{
    char x[4]={0};
    int j=29,q=0,size=0,i=1;
    float total=0,gtotal=0;
    FILE *file;
    file=fopen("record.txt","r+b");

```

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rewind(file);
system("cls");
dbill();
gotoxy(26,15);printf("enter  \"end\" to finish input");
while(1){
gotoxy(25,18);printf("                ");
gotoxy(25,19);printf("                ");
gotoxy(25,18);printf("enter item code:");
scanf("%s",x);
if(strcmp(x,"end")==0)
break;
gotoxy(25,19);printf("enter quantity:");
scanf("%d",&q);
rewind(file);
while(fread(&item,sizeof(item),1,file)){
if((strcmp(item.code,x)==0)){
total=item.rate*q;
gotoxy(11,j);printf("%4d",i);
printf("%9s",item.name);
printf("%13d",q);
printf("%15.2f",item.rate);
printf("%13.2f",total);
gtotal=gtotal+total;
size=sizeof(item);
item.quantity=item.quantity-q;
j+=2; i++;
fseek(file,-size,SEEK_CUR);fwrite(&item,sizeof(item),1,file);
break;
}
}
}
if(gtotal!=0){
gotoxy(30,j+5);
printf("TOTAL AMOUNT = NRs. %6.2f",gtotal);
}
fclose(file);
getch();
d_mainmenu();

```

```

}
/*function to display bill window*/
void dbill()
{
    int i;
    gotoxy(20,10);
    //;
    for (i=1;i<=10;i++)
        printf("*");
    printf(" * FASHION WEAR * ");
    for (i=1;i<=10;i++)
        printf("*");
    printf("\n\n");
    gotoxy(30,11);printf("Departmental Store");
    //textcolor(1);
    gotoxy(32,25);printf("CUSTOMER'S BILL") ;
    //textcolor(8);
    gotoxy(13,27);printf("SN.      Item Name      Quantity      Rate
Total");

}
/*function to add records*/
void add ()
{
    FILE *file;
    char y[ACS],x[12];
    system("cls");
    //textbackground(11);
    //textcolor(0);
    gotoxy(25,25);printf("Enter new record(Y/N)?");
    while(toupper(getche())=='Y'){
        system("cls");
        file=fopen("record.txt","ab");
        c_code(y);
        strcpy(item.code,y);
        gotoxy(22,28);printf("Enter rate of the item:");
        scanf("%f",&item.rate);
        gotoxy(22,30);printf("Enter quantity of the item:");
    }
}

```



```

scanf("%d",&item.quantity);
gotoxy(22,32);printf("Enter name of the item:");
scanf("%s",item.name);
fseek(file,0,SEEK_END);fwrite(&item,sizeof(item),1,file);
fclose(file);
gotoxy(22,34);printf("Enter new record(Y/N)?");

}
d_mainmenu();
}

/*function to check availability of code*/
void c_code(char y[])
{
int flag;
FILE *file;
file=fopen("record.txt","rb");
while(1){
system("cls");
window(20,58,23,36);
gotoxy(32,18);printf(" ADD ARTICLES ") ;
flag=1;
rewind(file);
gotoxy(22,25);printf("Enter new code of the article:");
scanf(" %[^\\n]",y);
while(fread(&item,sizeof(item),1,file)==1){
if (strcmp(y,item.code)==0){
flag=0;
gotoxy(26,30);printf("code already exists");
gotoxy(29,32);printf("enter again");getch();
break;
}
}
if (flag==1)
break;
}
}

```

```

/*function for editing*/
void edit()
{
    int flag=0,choice;
    char x[ACS],y[ACS];
    FILE *file;
    int size;
    system("cls");
    //textcolor(0);
    //textbackground(11);
    window(20,63,20,46);
    gotoxy(35,18);printf("EDIT RECORDS");
    ;
    gotoxy(25,23);printf("enter item code: ");
    scanf("%s",x);
    flag=check(x);
    if(flag==0){
        file=fopen("record.txt","r+b");
        rewind(file);
        while (fread(&item,sizeof (item),1,file)){
            if(strcmp(item.code,x)==0){
                //textcolor(0);
                gotoxy(25,27);printf("name      = %s",item.name);
                gotoxy(25,28);printf("code      = %s",item.code);
                gotoxy(25,29);printf("rate      = %g",item.rate);
                gotoxy(25,30);printf("quantity  = %d",item.quantity);
                gotoxy(25,32);; printf("do you want to edit this record(y/n):");
                fflush(file);
                if(toupper(getche())=='Y'){
                    //textcolor(0);
                    gotoxy(25,34); printf("1- edit name ");
                    gotoxy(25,35); printf("2- edit code ");
                    gotoxy(25,36); printf("3- edit rate ");
                    gotoxy(25,37); printf("4- edit quantity ");
                    gotoxy(25,39); ; printf(" enter your choice(1, 2, 3, 4) ");
                    scanf("%d",&choice);
                    switch(choice){
                        case 1:

```

```

system("cls");
window(23,48,20,40);
gotoxy(35,18);printf("EDIT RECORDS");
gotoxy(25,24); printf(" enter new name: ");
scanf("%s",item.name);
size=sizeof(item);
fseek(file,-size,SEEK_CUR);fwrite(&item,sizeof(item),1,file);
break;
case 2:
system("cls");
window(23,65,20,40);
gotoxy(35,18);printf("EDIT RECORDS");
gotoxy(25,24);
c_code(y);
strcpy(item.code,y);
size=sizeof(item);
fseek(file,-size,SEEK_CUR);fwrite(&item,sizeof(item),1,file);
break;
case 3:
system("cls");
window(23,65,20,40);
gotoxy(35,18);printf("EDIT RECORDS");
gotoxy(25,24);
printf(" enter new rate: ");
scanf("%f",&item.rate);
size=sizeof(item);
fseek(file,-size,SEEK_CUR);fwrite(&item,sizeof(item),1,file);
break;
case 4:
system("cls");
window(23,65,20,40);
gotoxy(35,18);printf("EDIT RECORDS");
gotoxy(25,24);
printf(" enter new quantity: ");
scanf("%d",&item.quantity);
size=sizeof(item);
fseek(file,-size,1);fwrite(&item,sizeof(item),1,file);
break;

```

```

    }
    gotoxy(27,30);printf("--- item edited---");
    break;
}
}
}
}
if (flag==1){
    gotoxy(32,30);printf("item does not exist");
    gotoxy(36,32);printf("TRY ABGAIN");
}
getch();
fclose(file);
d_mainmenu();
}

/*function to display all records*/
void d_all()
{
    int i,j=1;
    FILE *file;
    dis_con();
    file=fopen("record.txt","rb");
    rewind(file);
    i=26;
    fflush(file);
    while(fread(&item,sizeof(item),1,file)){
        display(&item,i,j);
        i++;
        j++;
        if ((j%20)==0){
            gotoxy(27,47);/*textcolor(0)*/;printf("press any key to see
more.....");
            getch();
            system("cls");
            dis_con();
            i=26;
            continue;
        }
    }
}

```

```

    }
    }
    getch();
    if (i==26) {
        gotoxy(24,30); printf("-- no articles found --");
    }
    getch();
    fclose(file);
    d_mainmenu();
}

/*function to display by quantity*/
void d_quan()
{
    int i,j=1;
    int a,b;
    FILE *file;
    dis_con();
    file=fopen("record.txt","rb");
    rewind(file);
    i=26;
    gotoxy(16,20);printf("enter lower range: ");
    scanf("%d",&a);
    gotoxy(16,21);printf("enter upper range:");
    scanf("%d",&b);
    fflush(file);
    while(fread(&item,sizeof(item),1,file)){
        if((item.quantity>=a)&&(item.quantity<=b)){
            display(&item,i,j);
            i++;
            j++;
            if ((j%20)==0){
                gotoxy(27,47);printf("press any key to see more.....");
                getch();
                system("cls");
                dis_con();
                i=26;
                continue;
            }
        }
    }
}

```

```

    }
    }
}
getch();
if (i==26){
    gotoxy(28,30); printf(" no item found ");
}
getch();
d_search();
fclose(file);
}

```

```

/*function to display by rate*/

```

```

void d_rate(){
    int i,j=1;
    float a,b;
    FILE *file;
    dis_con();
    file=fopen("record.txt","rb");
    rewind(file);
    i=26;
    gotoxy(16,20);printf("enter lower range: ");
    scanf("%f",&a);
    gotoxy(16,21);printf("enter upper range: ");
    scanf("%f",&b);
    fflush(file);
    while(fread(&item,sizeof(item),1,file)){
        if((item.rate>=a)&&(item.rate<=b)){
            display(&item,i,j);
            i++;
            j++;
            if ((j%20)==0){
                gotoxy(27,47);printf("press any key to see more.....");
                getch();
                system("cls");
                dis_con();
                i=26;
                continue;
            }
        }
    }
}

```

```

    }
}
}
getch();
if (i==26){
    gotoxy(28,30); printf(" no item found ");
}
getch();
fclose(file);
d_search();
}

/*function to display by code*/
void d_code()
{
    int i,j=1;
    char x[4]={0};
    FILE *file;
    dis_con();
    file=fopen("record.txt","rb");
    rewind(file);
    i=26;
    gotoxy(16,20);;printf("enter item code: ");
    scanf("%s",x);
    fflush(file);
    while(fread(&item,sizeof(item),1,file)){
        if((strcmp(item.code,x)==0)){
            display(&item,i,j);
            i++;
            j++;
            break;
        }
    }
    if (i==26){
        gotoxy(28,30); printf("no item found");
    }
    getch();
    fclose(file);
}

```

```

    d_search();
}

/*function to display window for item display*/
void dis_con()
{
    int i;
    system("cls");
    gotoxy(20,10);
    ;
    for (i=1;i<=10;i++)
        printf("*");
    printf(" * FASHION WEAR * ");
    for (i=1;i<=10;i++)
        printf("*");
    printf("\n\n");
    gotoxy(30,11);printf("Departmental Store");
    //textcolor(1);
    gotoxy(32,17);printf("RECORDS") ;
    //textcolor(8);
    gotoxy(18,23);printf ("SN    Item Name    Item Code    Rate
Quantity");
}

/*function to display in screen*/
void display(rec *item,int i,int j)
{
    gotoxy(16,i);//textcolor(13);
    printf("%4d",j);
    printf("%9s",item->name);
    printf("%12s",item->code);
    printf("%14.2f",item->rate);
    printf("%11d",item->quantity);
}

/*function to delete records*/
void del()
{

```



```

int flag;
char x[ANS];
FILE *file,*file1;
system("cls");
//textbackground(11);
//textcolor(0);
window(23,51,25,34);
gotoxy(29,18);printf("DELETE ARTICLES");
gotoxy(27,27);printf("enter item code: ");
scanf("%s",x);
flag=check(x);
if(flag==0){
    file1=fopen("record1.txt","ab");
    file=fopen("record.txt","rb");
    rewind(file);
    while (fread(&item,sizeof (item),1,file)){
        if(strcmp(item.code,x)!=0)
            fwrite(&item,sizeof(item),1,file1);
    }
    gotoxy(27,29);printf("---item deleted---");
    remove("record.txt");
    rename("record1.txt","record.txt");
}
if (flag==1){
    gotoxy(25,29);printf("---item does not exist---");
    gotoxy(30,31);printf("TRY AGAIN");
}
fclose(file1);
fclose(file);
getch();
d_mainmenu();
}

/*function to check validity of code while editing and deleting*/
int check(char x[ANS])
{
    FILE *file;
    int flag=1;

```

```

file=fopen("record.txt","rb");
rewind(file);
while (fread(&item,sizeof (item),1,file)){
    if(strcmp(item.code,x)==0){
        flag=0;
        break;
    }
}
fclose(file);
return flag;
}

```

```

/*function to display box*/
void window(int a,int b,int c,int d)
{
    int i;
    system("cls");
    gotoxy(20,10);
    //textcolor(1);
    for (i=1;i<=10;i++)
        printf("*");
    printf(" * FASHION WEAR * ");
    for (i=1;i<=10;i++)
        printf("*");
    printf("\n\n");
    gotoxy(30,11);printf("Departmental Store");
    //textcolor(4);
    for (i=a;i<=b;i++){
        gotoxy(i,17);printf("\xcd");
        gotoxy(i,19);printf("\xcd");
        gotoxy(i,c);printf("\xcd");
        gotoxy(i,d);printf("\xcd");
    }

    gotoxy(a,17);printf("\xc9");
    gotoxy(a,18);printf("\xba");
    gotoxy(a,19);printf("\xc8");
    gotoxy(b,17);printf("\xbb");
}

```

```
gotoxy(b,18);printf("\xba");
gotoxy(b,19);printf("\xbc");
//textcolor(4);
for(i=c;i<=d;i++){
    gotoxy(a,i);printf("\xba");
    gotoxy(b,i);printf("\xba");
}
gotoxy(a,c);printf("\xc9");
gotoxy(a,d);printf("\xc8");
gotoxy(b,c);printf("\xbb");
gotoxy(b,d);printf("\xbc");
//textbackground(11);
//textcolor(0);
}
```