CAR SHOWROOM MANAGEMENT SYSTEM

A MINI PROGECT DONE BY

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Problem statement

Designing car showroom management system which will manage the details of car and customer, and as per user's choice displays a desired output.

Introduction

The “Car Showroom Management System” will help to override the problems prevailing in the practicing manual system. This system is design for the particular need of the company to carry out operations in a smooth and effective manner.

The aim is to automate its existing manual system by the help of computerized equipment's and full-fledged computer software, fulfilling their requirements, so that their valuable data/information can be stored for longer period with easy accessing and manipulation of the same.

Functionalities provided by this system

- Record entry
- Delete record
- Update records
- Search record
- Display record
- Sort records

Sample input and output

1) Login page

   Enter password:

2) For Admin:

   After entering the password: adminpass

   Output:

   1. Employee records
   2. Customer records
   3. Car records
   4. Exit

3) For employee:

   After entering the password: userpass

   Output:

   1. Display Employee records
   2. Display Customer records
   3. Customer search
   4. Display Car records
   5. Car search
   6. Exit

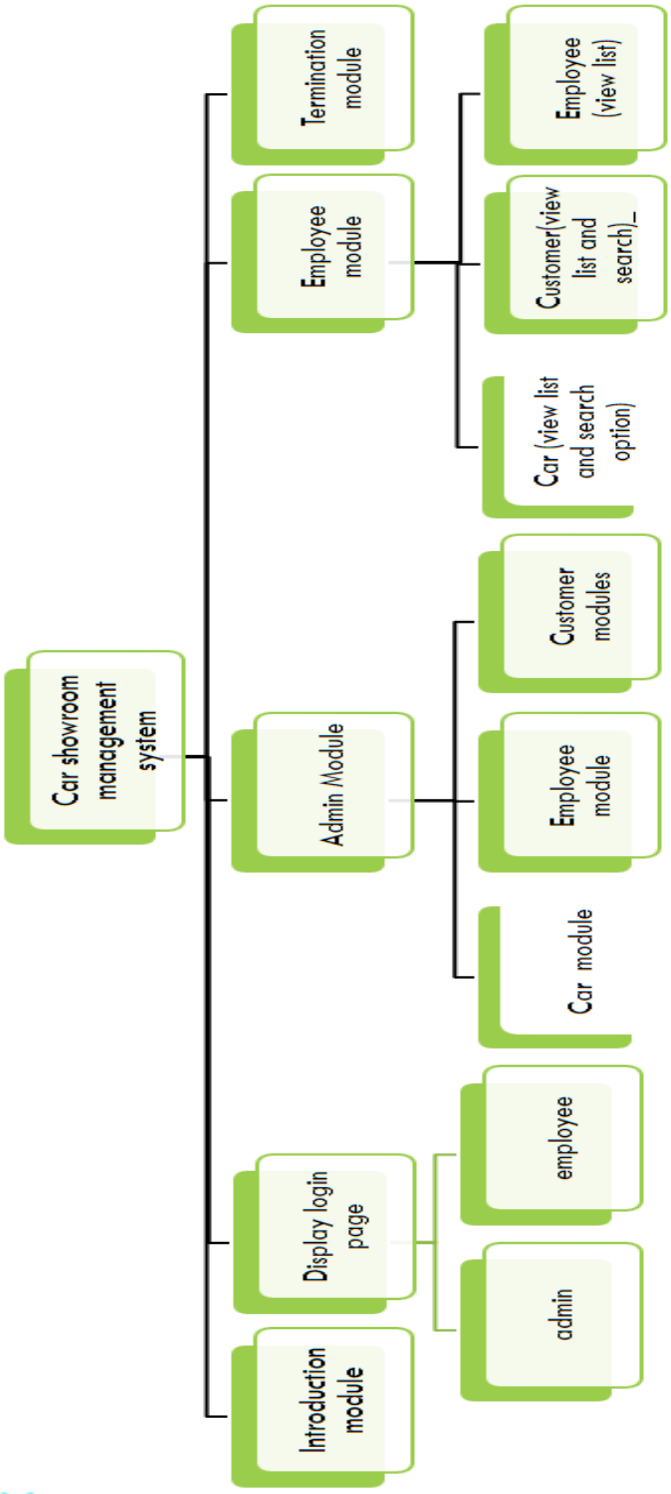
for Admin:

1. Employee records
    - Add
    - Update
    - Delete
    - Search
    - View list
2. Customer records
    - Add
    - Search
    - View list
3. Car records
    - Add
    - View list
    - Search
    - Delete
    - Update
    - sort

Data types

Int	Customers & employees phone numbers, Car id
Char	Car, Customers & employee names
Struct	Structures of car, customer and employee
Float	Car cost

Hierarchy chart



Pseudo code

1. start
2. Display “Car showroom management system”.
3. Declare variables as int, char, struct, float datatypes.
4. Login menu.
5. Check if password==adminpass

        Call adminmenu()

    Else if password==userpass

        Call usermenu()

    Else

        Call exit()

6. Stop

Source code:

```
#include<stdio.h>

#include<string.h>

#include<stdlib.h>

#define len 50

#define lenn 50


int avl_id();


struct car

{

        int idd;

        char namee[30];

        char features[100];

        float cost;

}nexa;
```

```
struct date{
   int month,day,year;
   };
struct emp
        {
            int id;
                char name[len];
                int age;
                char address[len];
                char Gender[10];
                float salary;
                long long int phone;
                struct date dob;
                struct date joined;

        };

char fname[]={"mydb.dat"};
```

```
struct datee{
   int dayy,monthh,yearr;
   };

struct customer
{
        int sr_no;
        char nname[lenn];
        char aaddress[100];
        double mobile_no;
        char carname[lenn];
        float price;
        struct datee d;
}c1;

char fnam[]={"CR.dat"};
//FUNCTION TO INSERT  CAR RECORDS TO THE FILE
void insert()
{
```

```
        FILE *fp;
        fp = fopen("car.dat", "a");
        printf("Enter the ID no   :");
        scanf("%d", &nexa.idd);
        printf("Enter the Name      :");
        scanf("%s", &nexa.namee);
        printf("Enter the Features      :");
        scanf("%s", &nexa.features);
        printf("Enter the Cost      :");
        scanf("%f", &nexa.cost);
        fwrite(&nexa, sizeof(nexa), 1, fp);
        fclose(fp);
}



//    FUNCTION TO DISPLAY CAR RECORDS
void disp()
{
        FILE *fp1;
```

```
        fp1 = fopen("car.dat", "r");
        //printf("\nID Number\tName\tCost\n\n");
        while (fread(&nexa, sizeof(nexa), 1, fp1))
{
        printf("\nID = %d\n", nexa.idd);
        printf("NAME = %s\n",nexa.namee);
        printf("FEATURES = %s\n",nexa.features);
        printf("COST = %.2f L\n", nexa.cost);
}
        fclose(fp1);
}


//    FUNCTION TO SEARCH THE GIVEN CAR RECORD
void search()
{
        FILE *fp2;
        int r, s, avl;
        printf("\nEnter the ID no you want to search  :");
```

```
scanf("%d",&r);
avl = avl_id(r);
if (avl == 0)
printf("ID number %d is not available in the file\n",r);
else
        {
        fp2 = fopen("car.dat", "r");
        while (fread(&nexa, sizeof(nexa), 1, fp2))
                {
                s = nexa.idd;
                if (s == r)
                        {
                        printf("\nID no = %d", nexa.idd);
                        printf("\nName = %s", nexa.namee);
                        printf("\nFeatures = %s", nexa.features);
                        printf("\nCost = %.2f L\n", nexa.cost);
                        }
                }
        fclose(fp2);
```

```
                }
}




//    FUNCTION TO DELETE A  CAR RECORD
void deletefile()
{
        FILE *fpo;
        FILE *fpt;
        int r, s;
        printf("Enter the ID no you want to delete :");
        scanf("%d", &r);
        if (avl_id(r) == 0)
        printf("ID no %d is not available in the file\n", r);
        else
                {
                fpo = fopen("car.dat", "r");
                fpt = fopen("TempFile.dat", "w");
```

```
            while (fread(&nexa, sizeof(nexa), 1, fpo))
            {
            s =nexa.idd;
            if (s != r)
            fwrite(&nexa, sizeof(nexa), 1, fpt);
            }
        fclose(fpo);
        fclose(fpt);
        fpo = fopen("car.dat", "w");
        fpt = fopen("TempFile.dat", "r");
        while (fread(&nexa, sizeof(nexa), 1, fpt))
        fwrite(&nexa, sizeof(nexa), 1, fpo);
        printf("\nRECORD DELETED\n");
        fclose(fpo);
        fclose(fpt);
        }

}
//    FUNCTION TO UPDATE THE  CAR RECORD
```

```
void update()
{
	int avl;
	FILE *fpt;
	FILE *fpo;
	int s, r, ch;
	printf("Enter id number to update:");
	scanf("%d", &r);
	avl = avl_id(r);
	if (avl == 0)
		{
		printf("ID number %d is not Available in the file", r);
		}
	else
		{
		fpo = fopen("car.dat", "r");
		fpt = fopen("TempFile.dat", "w");
			while (fread(&nexa, sizeof(nexa), 1, fpo))
			{
```

```
                s = nexa.idd;
                if (s != r)
                fwrite(&nexa, sizeof(nexa), 1, fpt);
                else
                        {
                        printf("\n\t1. Update Name of ID Number %d", r);
                        printf("\n\t2. Update Features of ID Number %d", r);
                        printf("\n\t3. Update Cost of ID Number %d", r);
                        printf("\n\t4. Update ALL Name,Features and Cost of ID
Number %d", r);
                        printf("\nEnter your choice:");
                        scanf("%d", &ch);
                        switch (ch)
                                {
                                case 1:
                                        printf("Enter Name:");
                                        scanf("%s", &nexa.namee);
                                        break;
                                case 2:
```

```
            printf("Enter Features:");
            scanf("%s", &nexa.features);
            break;
        case 3:
            printf("Enter cost : ");
            scanf("%f", &nexa.cost);
            break;
        case 4:
            printf("Enter Name: ");
            scanf("%s", &nexa.namee);
            printf("Enter Features:");
            scanf("%s", &nexa.features);
            printf("Enter cost: ");
            scanf("%f", &nexa.cost);
            break;
        default:
            printf("Invalid Selection");
            break;
        }
```

```
                    fwrite(&nexa, sizeof(nexa), 1, fpt);
                }
            }

            fclose(fpo);
            fclose(fpt);
            fpo = fopen("car.dat", "w");
            fpt = fopen("TempFile.dat", "r");
            while (fread(&nexa, sizeof(nexa), 1, fpt))
                {
                fwrite(&nexa, sizeof(nexa), 1, fpo);
                }
            fclose(fpo);
            fclose(fpt);
            printf("RECORD UPDATED");
        }
}
```

```
/* FUNCTION TO SORT THE RECORD //car*/
void sort()
{
	int a[20], count = 0, i, j, t, c;
	FILE *fpo;
	fpo = fopen("car.dat", "r");
	while (fread(&nexa, sizeof(nexa), 1, fpo))
		{
		a[count] = nexa.idd;
		count++;
		}
	c = count;
	for (i = 0; i<count - 1; i++)
		{
		for (j = i + 1; j<count; j++)
			{
			if (a[i]>a[j])
				{
				t = a[i];
```

```
                    a[i] = a[j];
                    a[j] = t;
                    }
                }
        }

count = c;
for (i = 0; i<count; i++)
        {
        rewind(fpo);
        while (fread(&nexa, sizeof(nexa), 1, fpo))
                {
                if (a[i] == nexa.idd)
                        {
                        printf("\nID = %d\n",nexa.idd);
                        printf("NAME = %s\n", nexa.namee);
                        printf("FEATURES = %s\n", nexa.features);
                        printf("COST = %.2f L\n", nexa.cost);
                        }
```

```
                }
            }
}

//    FUNCTION TO CHECK GIVEN ID NO. IS AVAILABLE //car
int avl_id(int rno)
{

    FILE *fp;
    int c = 0;
    fp = fopen("car.dat", "r");
    while (!feof(fp))
        {
        fread(&nexa, sizeof(nexa), 1, fp);

        if (rno == nexa.idd)
            {
            fclose(fp);
            return 1;
```

```
                        }
                }
        fclose(fp);
        return 0;
}


//FUNCTION TO CHECK THE FILE IS EMPTY OR NOT //car
int empty()
{
        int c = 0;
        FILE *fp;
        fp = fopen("car.dat", "r");
        while (fread(&nexa, sizeof(nexa), 1, fp))
        c = 1;
        fclose(fp);
        return c;
}
```

```
void append()
        {
                FILE *fp;
                struct emp t1;

                fp=fopen(fname,"ab");

                if(fp==NULL)
                {
                        printf("error while opening the file\n");
                        exit(1);
                }

                printf("\n---------------------------------");
                printf("\nEnter today's date(dd/mm/yyyy):");
              scanf("%d/%d/%d",&t1.joined.day,&t1.joined.month,&t1.joined.year);
                printf("\nEnter the employe_id: ");
                scanf("%d",&t1.id);
                printf("\nEnter the name: ");
```

```
scanf("%s",&t1.name);
printf("\nEnter the Address: ");
scanf("%s",&t1.address);
printf("\nEnter DOB(dd/mm/yyyy):");
scanf("%d/%d/%d",&t1.dob.day,&t1.dob.month,&t1.dob.year);
printf("\nEnter age: ");
scanf("%d",&t1.age);
printf("\nEnter Gender: ");
scanf("%s",t1.Gender);
printf("\nEnter the salary: ");
scanf("%f",&t1.salary);
printf("\nEnter the Phone Number: ");
scanf("%llu",&t1.phone);
printf("\n--------------------------------");

fwrite(&t1,sizeof(t1),1,fp);

printf("\nData saved successfully..!!\n");
fclose(fp);
```

```
	}

//-----------------------------------------TO MODIFY THE DETAIL-------------------------------
-
void modify()
	{
		FILE *fp,*fp1;
		struct emp t,t1;
		int id,found=0,count=0;

		fp=fopen(fname,"rb");
		fp1=fopen("temp.dat","wb");

		if(fp==NULL)
		{
			printf("error while opening the file\n");
			exit(1);
		}
```

```
if(fp1==NULL)
{
        printf("error while opening\n");
        exit(1);
}

printf("\nEnter the Emp ID you want to Modify:");
scanf("%d",&id);

while(1)
{
        fread(&t,sizeof(t),1,fp);

        if(feof(fp))
        {
                break;
        }
        if(t.id==id)
        {
```

```
        found=1;
        printf("\nEnter Employee ID:");
        scanf("%d",&t.id);

        fflush(stdin);
        printf("\nName : %s\n",t.name);
        printf("\nEnter Employee Salary:");
        scanf("%f",&t.salary);
        printf("\nEnter the Phone Number: ");
        scanf("%llu",&t.phone);
        printf("\nEnter the Address: ");
        scanf("%s",&t.address);
        fwrite(&t,sizeof(t),1,fp1);

}
else
{
        fwrite(&t,sizeof(t),1,fp1);
}
```

```
}
fclose(fp);
fclose(fp1);

if(found==0)
{
        printf("Sorry No Record Found\n\n");
}
else
{
        fp=fopen(fname,"wb");
        fp1=fopen("temp.dat","rb");

        while(1)
        {
                fread(&t,sizeof(t),1,fp1);

                if(feof(fp1))
                {
```

```
                        break;
                        }
                        fwrite(&t,sizeof(t),1,fp);
                    }

                }
                fclose(fp);
                fclose(fp1);
        }
//---------------------------------------DELETE THE DETAIL-----------------------------------------
-----
void del()
        {
                FILE *fp,*fp1;
                struct emp t,t1;
                int id,found=0,count=0;

                fp=fopen(fname,"rb");
                fp1=fopen("temp.dat","wb");
```

```
if(fp1==NULL)
{
        printf("error while opening the file\n");
        exit(1);
}
if(fp==NULL)
{
        printf("error while opening\n");
        exit(1);
}
printf("\nEnter the Emp ID you want to Delete:");
scanf("%d",&id);

while(1)
{
        fread(&t,sizeof(t),1,fp);

        if(feof(fp))
        {
```

```
                break;
        }
        if(t.id==id)
        {
                found=1;
        }
        else
        {
                fwrite(&t,sizeof(t),1,fp1);
        }
}
fclose(fp);
fclose(fp1);

if(found==0)
{
        printf("Sorry No Record Found\n\n");
}
else
```

```
        {
                fp=fopen(fname,"wb");
                fp1=fopen("temp.dat","rb");

                while(1)
                {
                        fread(&t,sizeof(t),1,fp1);

                        if(feof(fp1))
                        {
                                break;
                        }
                        fwrite(&t,sizeof(t),1,fp);
                }
        }
                fclose(fp);
        fclose(fp1);
    }
//----------------------------------------------SEARCH BY ID---------------------------
```

```
void search_by_id()
	{
		FILE *fp;
		struct emp t;
		int id,found=0;

		fp=fopen(fname,"rb");

		if(fp==NULL)
		{
			printf("error while opening file\n");
			exit(1);
		}

		printf("\nEnter the Emp ID:");
		scanf("%d",&id);

		while(1)
		{
```

```
                fread(&t,sizeof(t),1,fp);


                if(feof(fp))
                {
                        break;
                }
                if(t.id==id)
                {
                        found=1;

        printf("\n=========================================================
==\n\n");
                        printf("\t\t Employee Details of %s\n\n",t.name);

        printf("=========================================================
=\n\n");

                        printf("\n\t employee DETAILS \n\n");
                        printf("\tEmployee id: %d\n \tFull_Name: %s\n \tDOB:
%d/%d/%d \n\tAge: %d\n \tGender: %s\n \tAddress: %s\n \tPhone
Number:%llu\n \tsalary: %g\n\tjoined : %d/%d/%d\n",t.id, t.name,t.dob.day,
```

```
t.dob.month,t.dob.year,t.age,t.Gender,t.address,t.phone,t.salary,t.joined.day,t.joi
ned.month,t.joined.year);



        printf("\n=====================================================
==\n\n");
                                found++;
                        }
                }
                if(found==0)
                {
                        printf("\nSorry No Record Found");
                }
                fclose(fp);
        }
//-------------------------------------------------SEARCH BY NAME----------------------------
void search_by_name()
        {
                FILE *fp;
                struct emp t;
```

```
int found=0;
char name[20];

fp=fopen(fname,"rb");

if(fp==NULL)
{
        printf("error while opening the file\n");
        exit(1);
}

printf("\nEnter the Employee Name:");
scanf("%s",&name);

while(1)
{
        fread(&t,sizeof(t),1,fp);

        if(feof(fp))
```

```
                {
                        break;
                }
                if(strcmp(name,t.name)==0)
                {

        printf("\n=====================================================
==\n\n");
                        printf("\t\t Employee Details of %s\n\n",t.name);

        printf("=====================================================
=\n\n");

                        printf("\tEmployee id: %d\n \tFull_Name: %s\n \tDOB:
%d/%d/%d \n\tAge: %d\n \tGender: %s\n \tAddress: %s\n \tPhone
Number:%llu\n \tsalary: %g\n\tjoined : %d/%d/%d\n",t.id, t.name,t.dob.day,
t.dob.month,t.dob.year,t.age,t.Gender,t.address,t.phone,t.salary,t.joined.day,t.joi
ned.month,t.joined.year);


        printf("\n=====================================================
==\n\n");
```

```
                found++;
            }
        }
        if(found==0)
        {
        printf("\nSorry No Record Found");
        }
        fclose(fp);
    }

void search_employee()
    {
        int choice;
        printf("\n1.search by name\n 2.search by id\n");
        printf("enter your choice: ");
        scanf("%d",&choice);

        switch(choice)
        {
```

```
                case 1:search_by_name();
                break;
                case 2:search_by_id();
                break;
                default : printf("\n Invalid Input");
            }
        }

//---------------------------------------TO DISPLAY THE LIST OF EMPLOYEE----------------
---------------
void view_list()
        {
            FILE *fp;
            struct emp t;

            fp=fopen(fname,"rb");

            if(fp==NULL)
            {
```

```
                printf("error while opening opening the file\n");
                exit(1);
        }


    printf("\n=========================================================
==\n\n");
        printf("\t\t All Employee Details\n\n");

    printf("=========================================================
=\n\n");

        printf("ID\tName  \tSalary\t\tPhone no\n\n");

        while(1)
        {
                fread(&t,sizeof(t),1,fp);

                if(feof(fp))
                {
```

```
                        break;
                }
                printf("%d\t",t.id);
                printf("%s\t",t.name);
                printf("%.1f/-  \t",t.salary);
                printf("%llu\t\n\n",t.phone);
        }

    printf("=========================================================
=\n\n");

        fclose(fp);
    }
void addc()
    {
        FILE *fz;
        struct customer c1;

        fz=fopen(fnam,"ab");
        printf("\n----------------------------------");
```

```
        printf("\nEnter the sr.no: ");
        scanf("%d",&c1.sr_no);
        printf("\nEnter the name: ");
        scanf("%s",&c1.nname);
        printf("\nEnter the Address: ");
        scanf("%s",&c1.aaddress);
        printf("\nEnter the Phone Number: ");
        scanf("%lf",&c1.mobile_no);
        printf("\nEnter the car name:");
        scanf("%s",&c1.carname);
        printf("\nEnter the price: ");
        scanf("%f",&c1.price);
        printf("\nEnter today's date(dd/mm/yyyy):");
scanf("%d/%d/%d",&c1.d.dayy,&c1.d.monthh,&c1.d.yearr);
        printf("\n--------------------------------");

        fwrite(&c1,sizeof(c1),1,fz);

        printf("\nData saved successfully..!!\n");
```

```
        fclose(fz);
    }


//-------------------------------------------------SEARCH BY NAME----------------------------
void search_customer()
    {
        FILE *fz;
        struct customer c2;
        int found=0;
        char nname[20];

        fz=fopen(fnam,"rb");

        printf("\nEnter the Customer Name:");
        scanf("%s",&nname);

        while(1)
        {
```

```
                fread(&c2,sizeof(c2),1,fz);


                if(feof(fz))
                {
                        break;
                }
                if(strcmp(nname,c2.nname)==0)
                {

        printf("\n=================================================
==\n\n");
                                printf("\t\t Customer Details of %s\n\n",c2.nname);

        printf("=================================================
=\n\n");


                                printf("\nSr.No: %d\n \tFull_Name: %s\n \tAddress:
%s\n \tPhone Number:%lf\n \tCar name:%s\n \tprice: %f\n\tDate:%d/%d/%d\n
\t",c2.sr_no,c2.nname,c2.aaddress,c2.mobile_no,c2.carname,c2.price,c2.d.dayy,c
2.d.monthh,c2.d.yearr);
```

```
        printf("\n==========================================================
==\n\n");
                                found++;
                        }
                }
                if(found==0)
                {
                printf("\nSorry No Record Found");
                }
                fclose(fz);
        }
//---------------------------------------TO DISPLAY THE LIST OF CUSTOMER----------------
---------------
void viewlist()
        {
                FILE *fz;
                struct customer c2;

                fz=fopen(fnam,"rb");
```

```
        printf("\n=================================================
==\n\n");
                printf("\t\t All Customer Details\n\n");

        printf("=================================================
=\n\n");

                printf("Sr.No.\tName \tAddress \tPhone no \tCar name\t Price\n\n");

                while(1)
                {
                        fread(&c2,sizeof(c2),1,fz);

                        if(feof(fz))
                        {
                                break;
                        }
                        printf("%d\t",c2.sr_no);
```

```
                printf("%s\t",c2.nname);
                printf("%s\t",c2.aaddress);
                printf("%lf\t",c2.mobile_no);
                printf("%s\t",c2.carname);
                printf("%.2f L \t",c2.price);
                printf("\n");
        }

    printf("=====================================================
=\n\n");

        fclose(fz);
    }

void adminmenu();
void custmain();
// CAR MAIN PROGRAM
void carmain()
{   system("clear");
    int c, ep;
```

```
do
{

printf("\n\t---------Select your choice---------\n");
printf("\n\t1. CREATE \n\t2. DISPLAY  \n\t3. SEARCH");
printf("\n\t4. DELETE\n\t5. UPDATE\n\t6. SORT");
printf("\n\t7. To go back");
printf("\n\t8. EXIT");
printf("\n\t----------------------------------------\n");
printf("\nEnter your choice:");
scanf("%d", &c);
system("clear");
printf("\n");
switch (c)
        {
        case 1:
                insert();
                break;
        case 2:
```

```
        ep = empty();
        if (ep == 0)
        printf("\nThe file is EMPTY\n");
        else
        disp();
        break;
case 3:
        search();
        break;
case 4:
        deletefile();
        break;
case 5:
        update();
        break;
case 6:
        ep = empty();
        if (ep == 0)
        printf("\n The file is EMPTY\n");
```

```
        else
        sort();
        break;

case 7:
        adminmenu();
        break;

case 8:
        printf("\n\n\n\t\tTHANK YOU.....!!!\n\n\n");
        exit(1);
        break;

case 9: carmain();
        break;

default:
        printf("\nYour choice is wrong\nPlease try again...\n");
        break;
```

```
            }printf("\n\n1.Press 9 go back\n2.press 7 to go in  main_nmenu\n :");
                    scanf("%d",&c);
                    system("clear");
        } while (c == 9);



}


// EMP MAIN PROGRAM
void empmain()
        {       system("clear");
                int chh,ans;
                do
                {


                        printf("\n\t\t==================Employee Management
System=============\n\n");
```

```
                printf("1. Add the employee\n\n");
                printf("2. update the details\n\n");
                printf("3. Delete the employee detail\n\n");
                printf("4. Search the employee detail \n\n");
                printf("5. view all the list\n\n");
                printf("6. Exit\n\n");
                printf("7. go back\n\n");


        printf("=====================================================
=\n\n");

                printf("\nPlease enter your Choice:");
                scanf("%d",&chh);


                system("clear");
                switch(chh)
                {
                        case 1: append();
                                break;
```

```
                    case 2: modify();
                            break;

                    case 3: del();
                            break;

                    case 4:search_employee();
                            break;

                    case 5: view_list();
                            break;

                    case 6:         printf("\n\n\n\t\tTHANK
YOU.....!!!\n\n\n");
                            exit(1);
                    break;
```

```
                        case 7: adminmenu();
                                break;
                        case 8: empmain();
                                break;

                        default : printf("\n Invalid Input");
                                break;
                }
                printf("\n\n1. press 7 to go in  main_nmenu\n2. Press 8 go
back\n");
                scanf("%d",&chh);
        system("clear");
        }while(chh == 8);
}

//CUSTOMER MAIN PROGRAM
void custmain()
{       system("clear");
        int ch;
```

```
        do
        {

                printf("\n\t\t==================Customer Management
System=============\n\n");

                printf("1. Add the customer\n\n");
                printf("2. Search the customer detail \n\n");
                printf("3. View all the list\n\n");
                printf("5. Exit\n\n");
                printf("6. To go back\n\n");

    printf("=================================================
=\n\n");

                printf("\nPlease enter your Choice:");
                scanf("%d",&ch);
                system("clear");
                switch(ch)
```

```
{
        case 1: addc();
                break;

        case 2:search_customer();
                break;

        case 3: viewlist();
                break;

        case 4:custmain();
                break;

        case 5: printf("\n\n\n\t\tTHANK YOU.....!!\n\n\n");
                exit(1);
        break;

        case 6: adminmenu();
                break;
```

```
                        default : printf("\n Invalid Input");
                }
                printf("\n\n1.Press 4 go back\n2.press 6 to go in
main_nmenu\n");
                scanf("%d",&ch);
                system("clear");
        }while(ch == 4);
    }



void adminmenu()
{
        int option,c,ep,chh,ans ,ch;
        do
        {
        printf("\n\n\t\tWELCOME TO CAR SHOWROOM MANAGEMENT
SYSTEM\n\n");
        printf("1.Employee records\n\n");
        printf("2.Car records\n\n");
```

```
printf("3.Customer records\n\n");
printf("4.Exist\n\n");
printf("\nPlease enter your Choice:");
        scanf("%d",&option);
system("clear");
switch(option)
        {
                case 1: empmain();
                        break;
                case 2: carmain();
                        break;

                case 3: custmain();
                        break;
                case 4: printf("\n\n\n\t\tTHANK YOU.....!!!\n\n\n");
                                exit(1);
                default : printf("\n Invalid Input");
        }
```

```
        }while(option != 4);


}



void usermenu()
{
        int optionn,ep,c,chh,ans,ch;
        do
        {
        printf("\n\n\t\tWELCOME TO CAR SHOWROOM MANAGEMENT
SYSTEM\n\n");
        printf("1. Display Employee records\n\n");
        printf("2. Display Customer records\n\n");
        printf("3. Customer search\n\n");
        printf("4. Display Car records\n\n");
        printf("5. Car search\n\n");
        printf("7. Exist\n\n");
        printf("\nPlease enter your Choice:");
```

```
scanf("%d",&optionn);
system("clear");
switch(optionn)
        {
                case 1: view_list();
                        break;
                case 2: viewlist();
                        break;

                case 3:search_customer();
                        break;

                case 4: ep = empty();
                        if (ep == 0)
                        printf("\nThe file is EMPTY\n");
                        else
                        disp();
                        break;
                case 5:
```

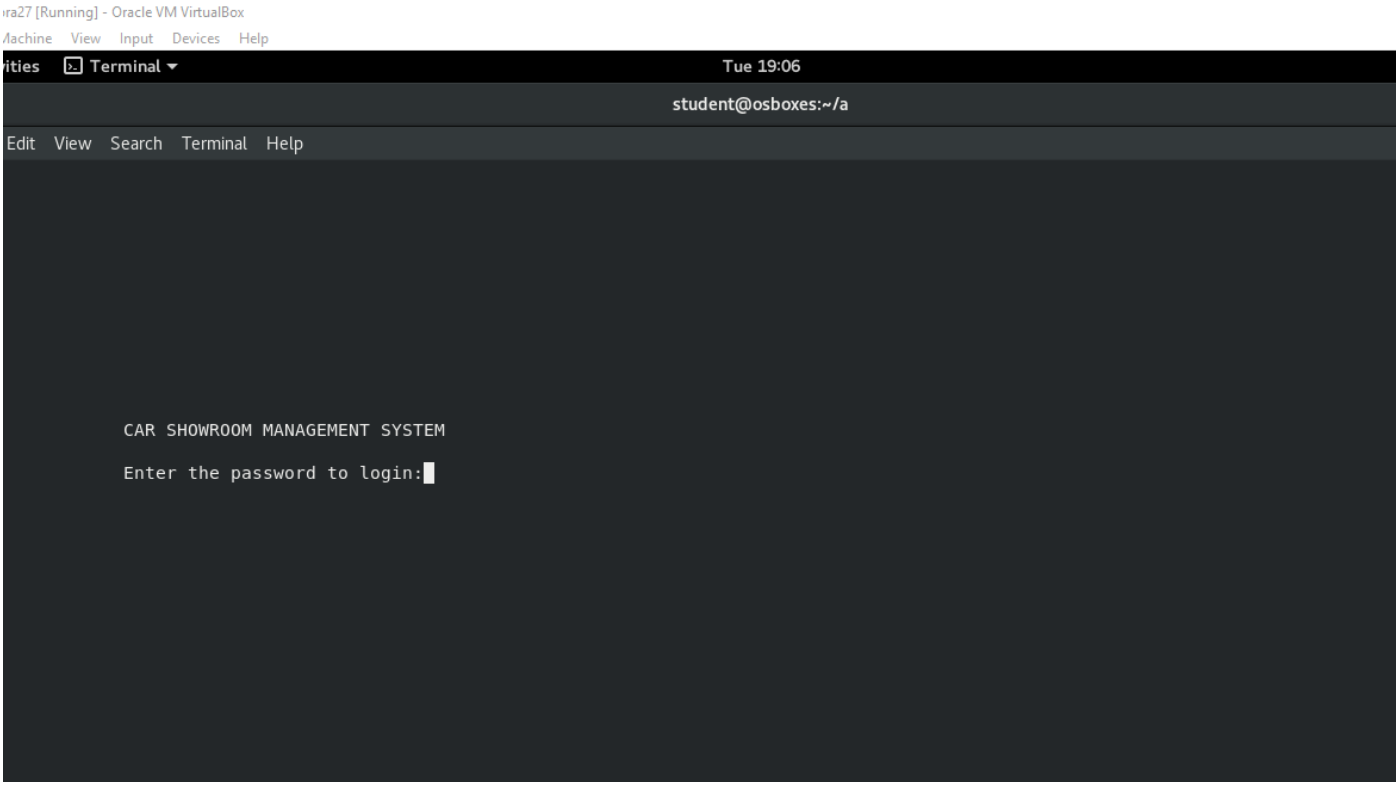
```
                search();
                break;
            case 6: usermenu();
                break;
            case 7: printf("\n\n\n\t\tThank Tou....!!!\n\n");
                exit(1);

            default : printf("\n Invalid Input");
        }
        printf("\n\n1.Press 6 to go back\n2.press 7 to exit  :");
            scanf("%d",&optionn);
            system("clear");

       }while(optionn == 4);

}

int main()
{
```

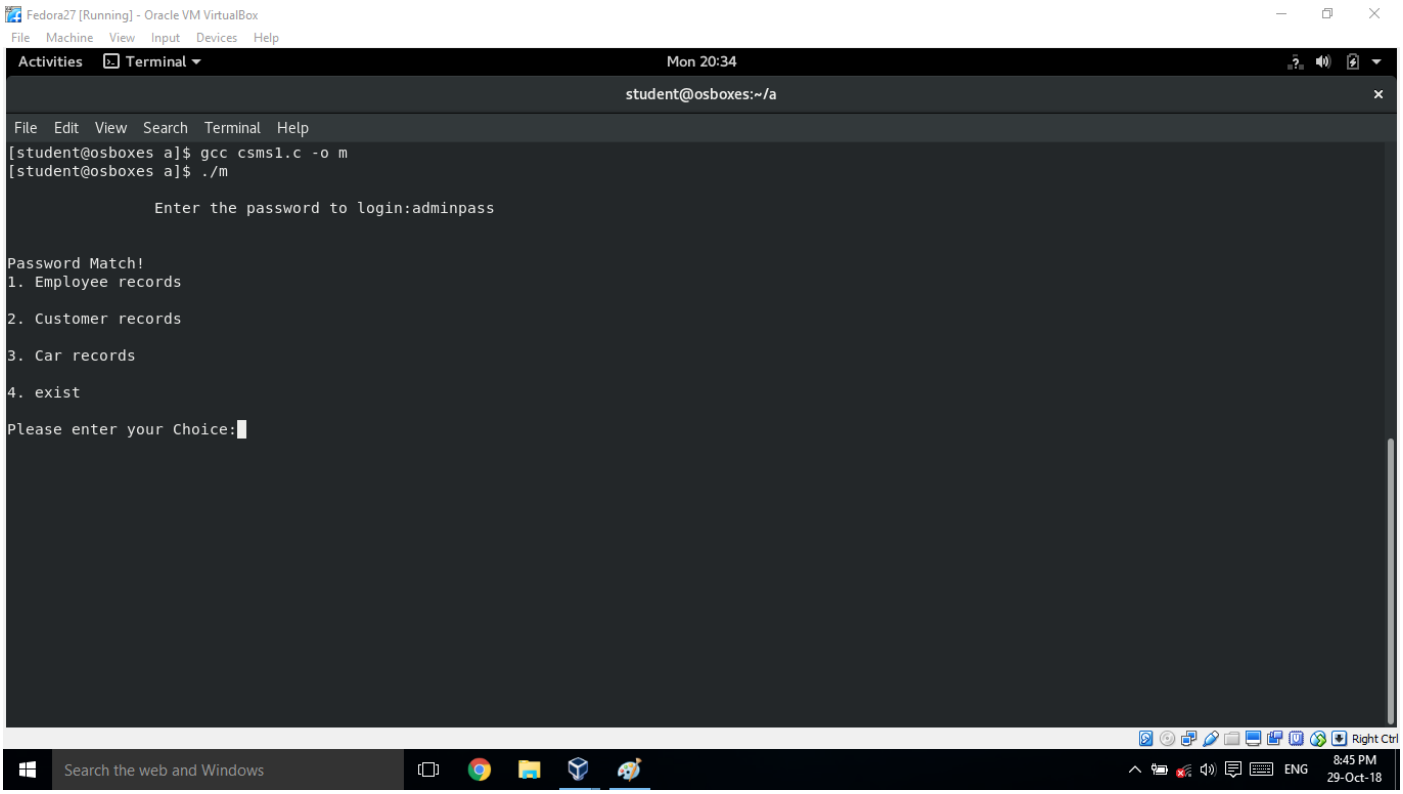
```
   system("clear");
char pass[10],password[10]="adminpass",para[10]="userpass";
int i=0;


    printf("\n\t\tCAR SHOWROOM MANAGEMENT SYSTEM\n");
 printf("\n\t\tEnter the password to login:");
 scanf("%s",pass);


 if (strcmp(pass,password)==0)
         {
            printf("\n\nPassword Match!\n");
            system("clear");
            adminmenu();
            }
   else if
            (strcmp(pass,para)==0)
         {
            printf("\n\nPassword Match!\n");
         system("clear");
```

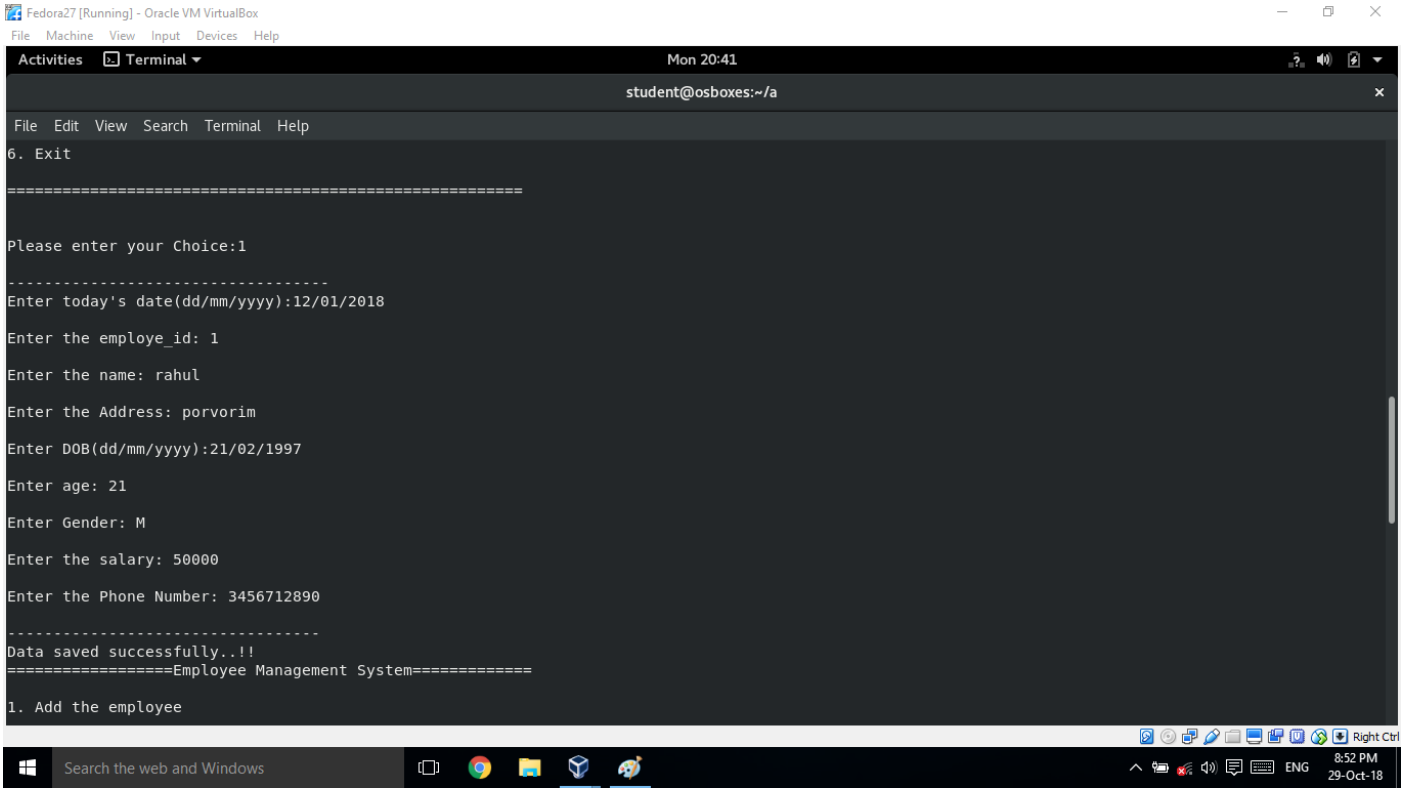
```
        usermenu();


}
else
      {
         printf("\n\nWrong password!!");
      do{
                int main_exit;
            printf("\nEnter 1 to try again and 0 to exit:");
            scanf("%d",&main_exit);
            if (main_exit==1)
                  {


                     system("clear");
                     main();
                  }


            else if (main_exit==0)
                  {
```

```
                    system("clear");
                    exit(1);}
                else
                    {
                        printf("\nInvalid Option Selected...! Try Again");
                    system("clear");
                    }
                }while(1);
            }
    return 0;
}
```

Output screenshots: 1. Login and for admin

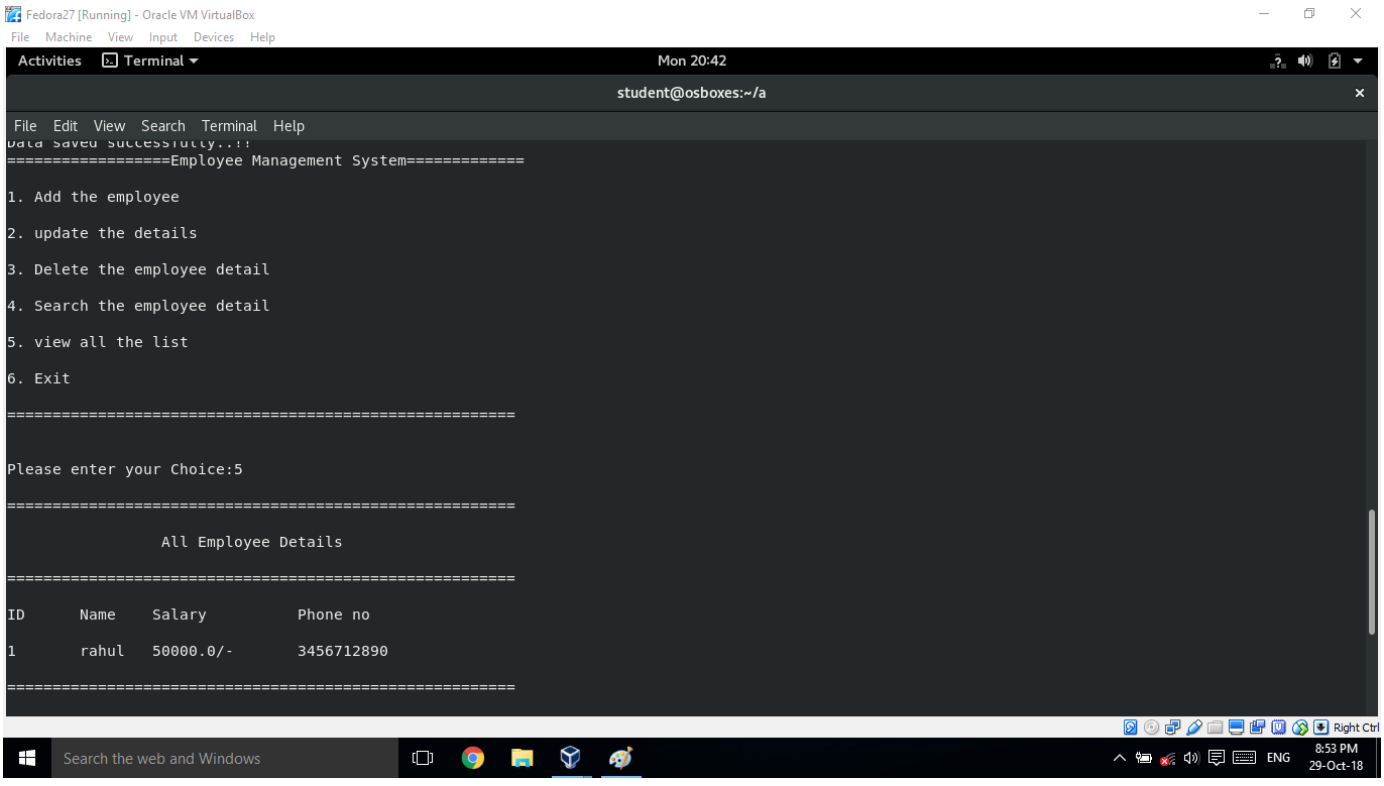


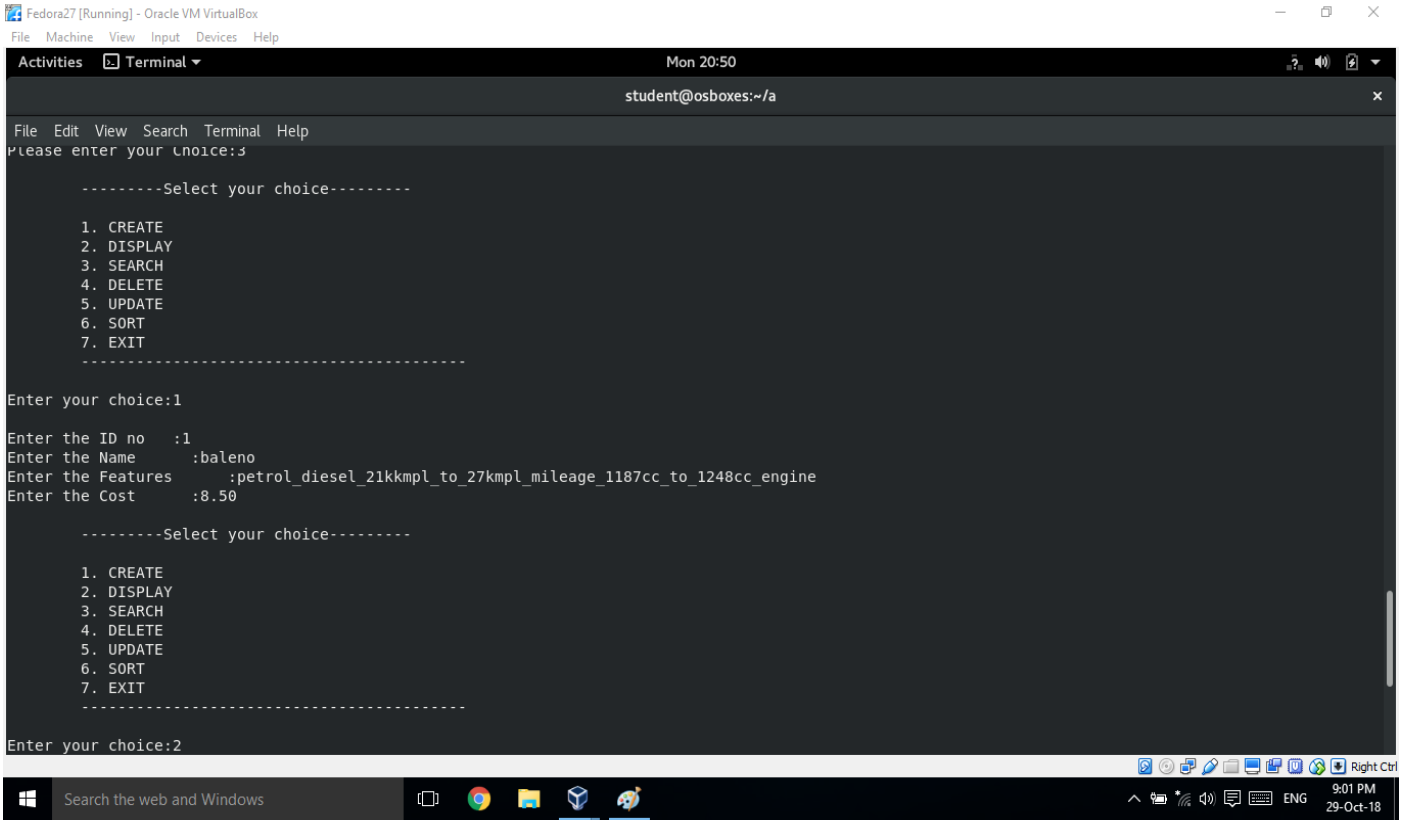


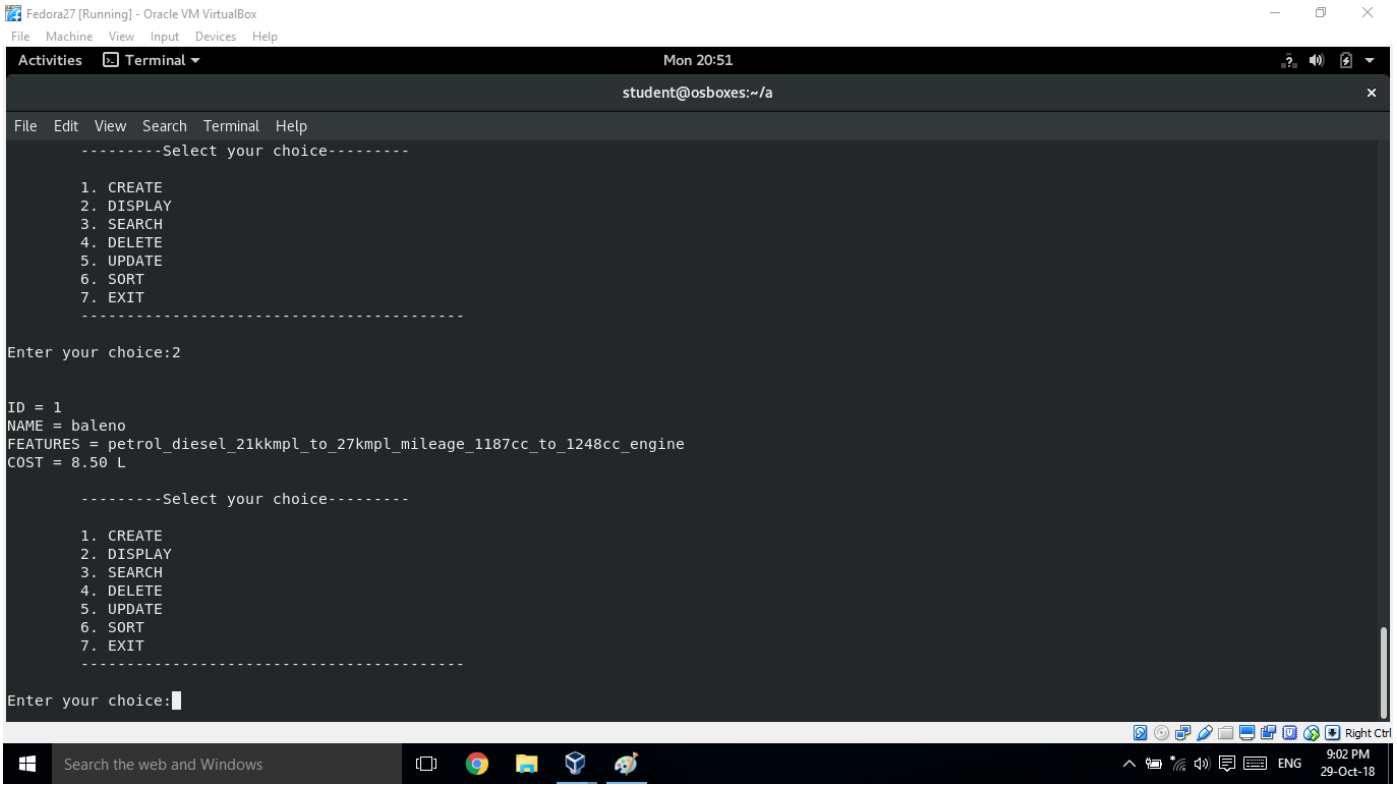

Fedora27 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Activities Terminal Mon 20:41
student@osboxes:~/a
File Edit View Search Terminal Help
6. Exit
==========
Please enter your Choice:1

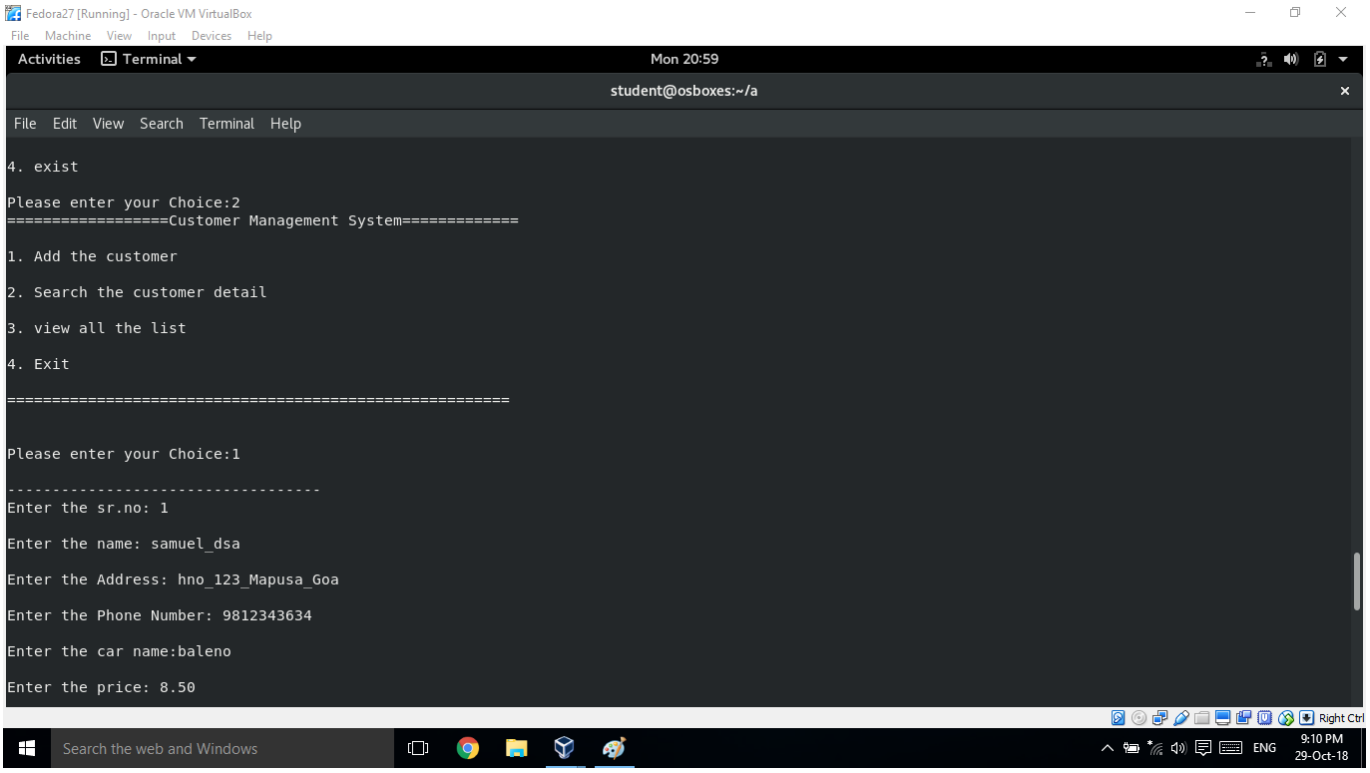
Enter today's date(dd/mm/yyyy):12/01/2018
Enter the employe_id: 1
Enter the name: rahul
Enter the Address: porvorim
Enter DOB(dd/mm/yyyy):21/02/1997
Enter age: 21
Enter Gender: M
Enter the salary: 50000
Enter the Phone Number: 3456712890

Data saved successfully..!!
==========Employee Management System==========
1. Add the employee
Search the web and Windows
ENG
8:52 PM
29-Oct-18

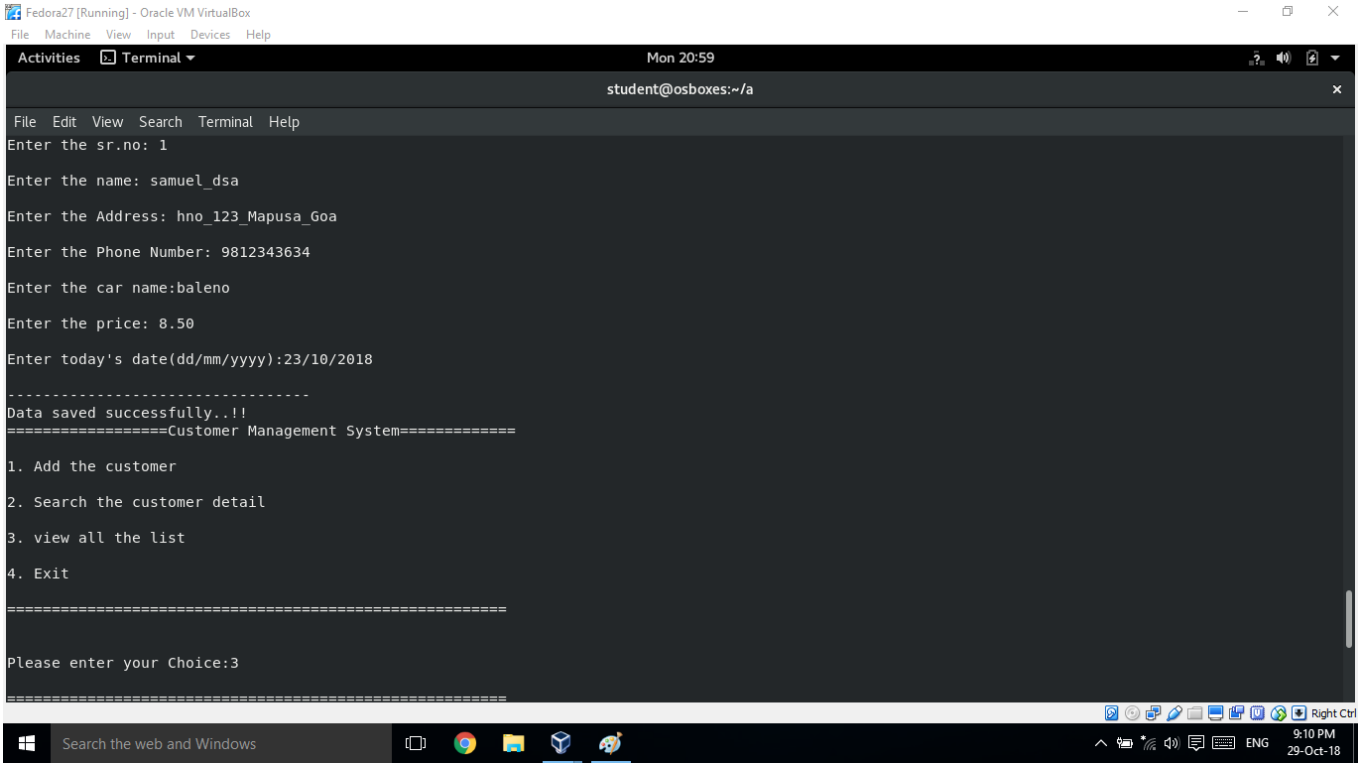

Fedora27 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Activities Terminal Mon 20:42
student@osboxes:~/a
File Edit View Search Terminal Help
==========Employee Management System==========
1. Add the employee
2. update the details
3. Delete the employee detail
4. Search the employee detail
5. view all the list
6. Exit
==========
Please enter your Choice:5
==========
All Employee Details
==========
ID Name Salary Phone no
1 rahul 50000.0/- 3456712890
==========
Search the web and Windows
ENG
8:53 PM
29-Oct-18


Fedora27 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Activities Terminal Mon 20:50
student@osboxes:~/a
File Edit View Search Terminal Help
Please enter your choice:3
---------Select your choice---------
1. CREATE
2. DISPLAY
3. SEARCH
4. DELETE
5. UPDATE
6. SORT
7. EXIT
Enter your choice:1
Enter the ID no :1
Enter the Name :baleno
Enter the Features :petrol_diesel_21kkmpl_to_27kmpl_mileage_1187cc_to_1248cc_engine
Enter the Cost :8.50
Enter your choice:2
Search the web and Windows
ENG
9:01 PM
29-Oct-18


Fedora27 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Activities Terminal Mon 20:51
student@osboxes:~/a
File Edit View Search Terminal Help
---------Select your choice---------
1. CREATE
2. DISPLAY
3. SEARCH
4. DELETE
5. UPDATE
6. SORT
7. EXIT
Enter your choice:2
ID = 1
NAME = baleno
FEATURES = petrol_diesel_21kkmpl_to_27kmpl_mileage_1187cc_to_1248cc_engine
COST = 8.50 L
---------Select your choice---------
1. CREATE
2. DISPLAY
3. SEARCH
4. DELETE
5. UPDATE
6. SORT
7. EXIT
Enter your choice:
Search the web and Windows
ENG
9:02 PM
29-Oct-18


Fedora27 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Activities Terminal Mon 20:59
student@osboxes:~/a
File Edit View Search Terminal Help
4. exist
Please enter your Choice:2
==========Customer Management System==========
1. Add the customer
2. Search the customer detail
3. view all the list
4. Exit
==========
Please enter your Choice:1

Enter the sr.no: 1
Enter the name: samuel_dsa
Enter the Address: hno_123_Mapusa_Goa
Enter the Phone Number: 9812343634
Enter the car name:baleno
Enter the price: 8.50
Right Ctrl
Search the web and Windows
ENG
9:10 PM
29-Oct-18


Fedora27 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Activities Terminal Mon 20:59
student@osboxes:~/a
File Edit View Search Terminal Help
Enter the sr.no: 1
Enter the name: samuel_dsa
Enter the Address: hno_123_Mapusa_Goa
Enter the Phone Number: 9812343634
Enter the car name:baleno
Enter the price: 8.50
Enter today's date(dd/mm/yyyy):23/10/2018

Data saved successfully..!!
==========Customer Management System==========
1. Add the customer
2. Search the customer detail
3. view all the list
4. Exit
==========
Please enter your Choice:3
==========
Right Ctrl
Search the web and Windows
ENG
9:10 PM
29-Oct-18

2. for employee