

# **School of Information Technology and Engineering**

Fall Semester 2018-19

# **CAR WORKSHOP BILLING SYSTEM**

#### PROJECT REPORT

Submitted in fulfilment for the J-Component of ITA3001 – OBJECT OREINTED PROGRAMMING

### **CAL COURSE**

in

**B.C.A** 

by

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Under the guidance of

Prof. BRATH P
SITE

#### **OUTPUTS**:

### **PROGRAM CODE:**

```
#include<iostream>
#include<fstream>
#include<string.h>
#include<conio.h>
#include <stdlib.h>
using namespace std;

class vehicle
{
    public:
        char name_c[34],cno,add_c[20],c,ph[10],idno[5];
```

```
int chrep,chpp,choice,choice1,chh,tcost=0;
   string s1;
       vehicle(){
         char
                      name_c[]="xyz";
         char
                 add_c[]="new customer";
                char
         char idno[]="00000";
         }
void customer d()
  {
  cout<<"\n\t\t\t Enter customer's name: \t ";</pre>
   cin>>name_c;
   cout<<"\n\t\t\t Enter address:</pre>
                                       \t";
   cin>>add c;
   cout<<"\n\t\t\t Phone number:</pre>
                                          \t";
   cin>>ph;
   cout<<"\n\t\t\t Car number : \t";</pre>
   cin>>idno;
                    }
         void show()
   {
         cout<<"\n\t\t\tcustomer's name:\t ";</pre>
   cout<<name c;</pre>
   cout<<"\n\t\taddress:\t ";</pre>
   cout<<add c;</pre>
   cout<<"\n\t\t\tPhone number:\t ";</pre>
   cout<<ph;</pre>
```

```
cout<<idno<<endl;</pre>
           }
     };
     class service:public vehicle
     {
          public:
                void services();
                void chosen(int ch);
                void washing();
                void accident();
                void denting();
                void regular();
                void part();
                void billing();
     };
     void service:: services()
            flagd:
     {
        system("cls");
     cout<<"\n\n\t\t\t\t
                                                             _\n\n";
                cout<<"\t\t\t\t\t</pre>
SERVICE PAGE \n";
     cout<<"\t\t\t\t____
                                                ____\n";
                cout<<"\n\n\t\t\t\t
                                         WHAT TYPE OF SERVICE YOU
WANT "<<endl<<endl;
                cout<<"\n\t\t\t\t
                                       1.Washing\n";
                cout<<"\n\t\t\t\t</pre>
                                       2.Accidental Damage
serivces\n ";
                cout<<"\n\t\t\t
                                       3.Denting painting\n ";
```

cout<<"\n\t\tCar number: ";</pre>

```
cout<<"\n\t\t\t
                                       4.Regular service\n";
                                       5.Part replacement\n";
                cout<<"\n\t\t\t
                                      6. For bill\n";
               cout<<"\n\t\t\t
                cout<<"\n\n\t\t ENTER YOUR CHOICE: \t";</pre>
           cin>>choice;
           switch(choice)
{
     case 1: washing();
             break;
     case 2: accident();
              break;
      case 3: denting ();
              break;
     case 4: regular();
             break;
     case 5: part();
             break;
     case 6:{
            billing();
           break;
      }
    default: { cout<<"\n\n\t\t\tWRONG INPUT \t Please try</pre>
again\n\t\t";
                 system("pause");
                 goto flagd;
                 break;
                         } }
}
     void service::accident()
    flagw:
{
      system("cls");
```

```
cout<<"\n\n\t\t\t
                              \n\n";
      cout<<"\t\t\t\t\t ACCIDENTAL PAGE \n";</pre>
      cout<<"\t\t\t _____\n";
          cout<<"\n\n\t\t\t00Ps! Your vehicle got a accidental</pre>
damage \n\n";
     cout<<"\n\t\t0nly these things should be recovered : \n\n";</pre>
     cout<<"\n\t\t\t
                            TYPE\t\t\t\t\t\t COST";
     cout<<"\n\t\t\t
     cout<<"\n\t\t\
1.liquid leakage</pre>
$500\n";
     cout<<"\n\t\t\t</pre>
2.Electrical fuse
$1000\n";
     cout<<"\n\t\t</pre>
3.Damaged headlight
$1200\n";
     cout<<"\n\t\t\t 4.Break fail</pre>
$2000\n";
     cout<<"\n\n\t\t CHARGES will be taken if your vehicle is out</pre>
of insurancy policy: \n";
     cout<<"\n\n\t\tENTER YOUR CHOICE :\t";</pre>
     cin>>choice1;
switch(choice1)
{
    case 1: s1+="\n\t\t\t
                              liquid leakage
$500";
            tcost+=500;
            break;
    case 2: s1+="\n\t\t
Electrical fuse
$1000";
            tcost+=1000;
             break;
```

```
case 3: s1+="\n\t\t\t
                                  Damaged headlight
$1200";
                tcost+=1200;
               break;
     case 4: s1+="n\t\t\t
Break fail
$2000";
               tcost+=2000;
               break;
             default: {
                  cout<<"\n\n\t\t\t\tWRONG INPUT\t Please try</pre>
again!!!!!!\n\n\t\t\t";
                       system("pause");
                         goto flagw;
                      break;
}
}
       flagc:
     cout<<"\n\t\t\t</pre>
";
        cout<<"\n\t\t Press 1 to choose once again....";</pre>
         cout<<"\n\t\t Press 2 to return to main menu.....";</pre>
         cout<<"\n\t\t\t Press 0 to exit!!!";</pre>
         cin>>chh;
         if(chh==1)
            { accident();
                                  }
           else if(chh==2) {      services();  }
            else { cout<<"wrong input";</pre>
                   goto flagc;
           }
```

```
}
     void service::washing()
{
     do{
  system("cls");
               cout<<"\n\n\t\t\t\t\t</pre>
                _____\n\n";
      cout<<"\t\t\t\t\t\t</pre>
washing page \n";
      cout<<"\t\t\t\t\t
     cout<<"\n\t\t\t Welcome:Your car is going to wash soon \n";</pre>
     cout<<"\n\t\t\t Which type of washing do you want\n";</pre>
     cout<<"\n\n\t\t\t
                         TYPE\t\t\t\t\t\t COST";
     cout<<"\n\t\t\t
     cout<<"\n\t\t\t</pre>
1.Standard wash
     cout<<"\n\t\t\t</pre>
2.Golden wash
$1000";
     cout<<"\n\t\t\t</pre>
3.Diamond wash
$2000";
     cout<<"\n\n\t\t\t ENTER THE CHOICE \t";</pre>
     cin>>choice1;
     switch (choice1)
     {
     case 1:
                      { s1+="\n\t} Standard wash
$500";
                         tcost+=500;
                     break; }
```

```
case 2:{ s1+="\n\t\t\t Golden wash
$1000";
                      tcost+=1000;
                      break; }
     case 3:{ s1+="\n\t\t\t Diamond wash
$2000";
                   tcost+=2000;
                 break;
               }
                default:{
                  cout<<"\n\n\tWRONG INPUT\n\n\t Please try again";</pre>
                  system("pause");
                       break; }
     }
}while(choice1>3);
  flagc:
     cout<<"\n\t\t\t</pre>
";
        cout<<"\n\t\t Press 1 to choose once again....";</pre>
         cout<<"\n\t\t Press 2 to return to main menu.....";</pre>
         cout<<"\n\t\t\t Press 0 to exit!!!";</pre>
         cin>>chh;
         if(chh==1)
            { washing();
                                  }
           else if(chh==2) {      services(); }
            else { cout<<"wrong input";</pre>
                   goto flagc;
           }
}
```

```
void service::denting()
{
     flagp:
       system("cls");
              cout<<"\n\n\t\t\t\t</pre>
              ____\n\n";
      cout<<"\t\t\t\t\t\t</pre>
PAINTING PAGE \n";
      cout<<"\t\t\t\t
                         _____\n";
     cout<<"\n\n\t\tWelcome:Your car is going to be painted soon</pre>
\n";
     cout<<"\n\n\t\t\t</pre>
TYPE\t\t\t\t\t\t COST";
     cout<<"\n\t\t\t</pre>
                                                              \n
     cout<<"\n\t\t\t</pre>
1.Same color
$1000\n";
     cout<<"\n\t\t\
2.Red</pre>
$1000\n";
     cout<<"\n\t\t\
3.Black</pre>
$1000\n";
   cout<<"\n\n\t\t\t ENTER THE CHOICE FOR PAINTING \t";</pre>
     cin>>chpp;
     if(chpp==1)
          s1+="\n\t\t\t
Same color
$1000";
     tcost+=1000;}
     else if(chpp==2)
        s1+="\n\t\ Red
$1000";
        tcost+=1000;}
        else if(chpp==3)
           s1+="\n\t\
                              Black
$1000";
```

```
tcost+=1000;
           }
       else { cout<<"\n\n\t\t WRONG INPUT PLESE TRY AGAIN !!!";</pre>
                goto flagp; }
       flagc:
     cout<<"\n\t\t\t</pre>
";
        cout<<"\n\t\t Press 1 to choose once again....";</pre>
         cout<<"\n\t\t Press 2 to return to main menu.....";</pre>
         cout<<"\n\t\t\t Press 0 to exit!!!";</pre>
         cin>>chh;
         if(chh==1)
            { denting();
                                 }
           else if(chh==2) {
                               services(); }
            else { cout<<"wrong input";</pre>
                   goto flagc;
           }
    }
void service::part()
    flagpar:
system("cls");
               cout<<"\n\t\t\t\t\t</pre>
                                   \n\n";
      cout<<"\t\t\t\t\t\t</pre>
PART REPLACEMET PAGE \n";
      cout<<"\t\t\t\t\t
                                                        \n";
           cout<<"\n\t\t Which part you want to replace: ";</pre>
```

```
TYPE\t\t\t\t\t\t COST";
     cout<<"\n\n\t\t\t
     cout<<"\n\t\t\t</pre>
                                                                     \n
";
     cout<<"\n\t\t\t</pre>
                             1.Window glass
$1000"<<endl;
     cout<<"\n\t\t\t</pre>
                             2.Door
$5000"<<endl;
     cout<<"\n\t\t\t
                             3.Stearing
$2000"<<endl;
    cout<<"\n\t\t\t
                           4.Mirrors
$2500"<<endl;
    cout<<"\n\t\t\t
                           5.Wheel
$4000"<<endl;
   cout<<"\n\n\t\t ENTER YOUR CHOICE: \t";</pre>
    cin>>chrep;
    if(chrep==1)
     {s1+="\n\t\t}
                           Window glass
$1000";tcost+=1000;}
     else if(chrep==2)
     \{ s1+="\n\t\t
                            Door
$5000";tcost+=5000;}
           else if(chrep==3)
     \{ s1+="\n\t\t
                             Stearing
$2000";tcost+=2000;}
           else if(chrep==4)
     { s1+="\n\t\t}
                            Mirrors
$2500";tcost+=2500;}
           else if(chrep==5)
      { s1+="\n\t\t\t
                            Wheel
$4000";tcost+=4000;}
        else { cout<<"\n\n\t\t WRONG INPUT PLESE TRY AGAIN !!!";</pre>
             system("pause");
```

goto flagpar; }

```
flagc:
```

cout<<"\n\t\t\t

```
";
        cout<<"\n\t\t Press 1 to choose once again....";</pre>
         cout<<"\n\t\t Press 2 to return to main menu.....";</pre>
         cout<<"\n\t\t\t Press 0 to exit!!!";</pre>
         cin>>chh;
         if(chh==1)
            { part();
                                }
            else if(chh==2) {      services(); }
            else { cout<<"wrong input";</pre>
                  goto flagc;
           }
                  }
void service::regular()
{
  system("cls");
              cout<<"\n\t\t\t\t\t</pre>
                        _____\n\n";
      cout<<"\t\t\t\t\t\t REGULAR SERVICE \n";</pre>
                          _____\n";
      cout<<"\t\t\t\t\t
     cout<<"\n\n\t\t\t We will provide you these services in this</pre>
PACKAGE:";
     cout<<"\n\n\t\t 1.Car washing\n\t\t 2.denting painting</pre>
\n\t\t\t 3.polishing and oiling greesing ";
     cout<<"\n\n\t\t\tPress any key to opt this: ";</pre>
     cin>>c;
        s1+="\n\t\t\t Reg service
$5000";
     tcost+=5000;
      flagc:
```

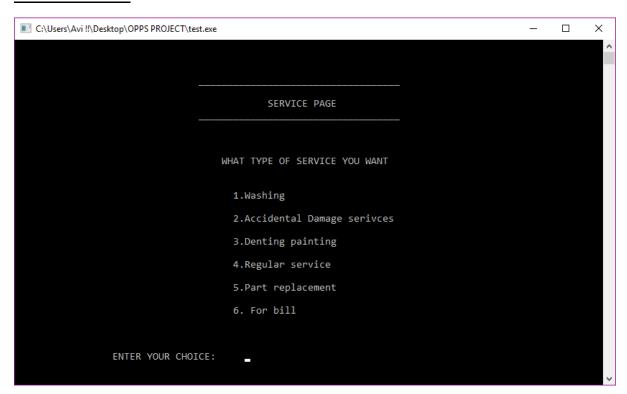
```
cout<<"\n\t\t\t
```

```
<del>";</del>
        cout<<"\n\t\t Press 1 to choose once again....";</pre>
         cout<<"\n\t\t Press 2 to return to main menu.....";</pre>
         cout<<"\n\t\t Press 0 to exit!!!";</pre>
         cin>>chh;
          if(chh==1)
             { regular();
                             }
           else if(chh==2) {      services();    }
            else { cout<<"wrong input";</pre>
                    goto flagc;
            }
}
void service::billing()
{ system("cls");
   cout<<"\n\t\t\t\t\t\t
YOUR BILL \n";</pre>
   cout<<"\t\t\t\t
                                                              _\n";
          show();
           cout<<"\n\t\t\t SERVICES\t\t\t\t\t COST";</pre>
   cout<<"\n\t\t\t</pre>
_\n";
     cout<<s1;</pre>
           cout<<"\n\t\t\t
__\n";
        cout<<"\n\t\t\t\t TOTAL COST:\t\t\t\s"<<tcost;</pre>
        cout<<"\n\n\t\tThankyou for visiting: ";</pre>
      cout<<"\n\t\tHoping you are satisfied and happy with the</pre>
service";
}
```

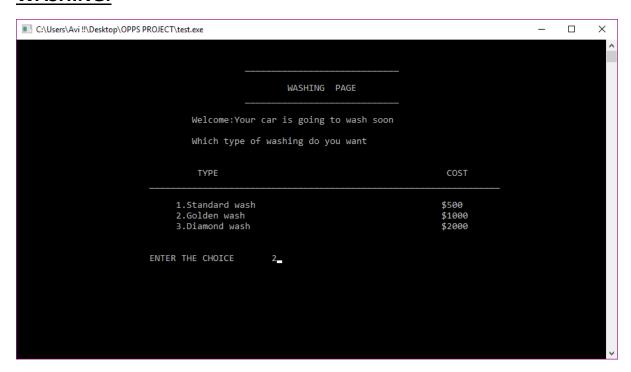
# **OUTPUT:**

# **CUSTOMER DETAILS:**

### **MENU PAGE:**



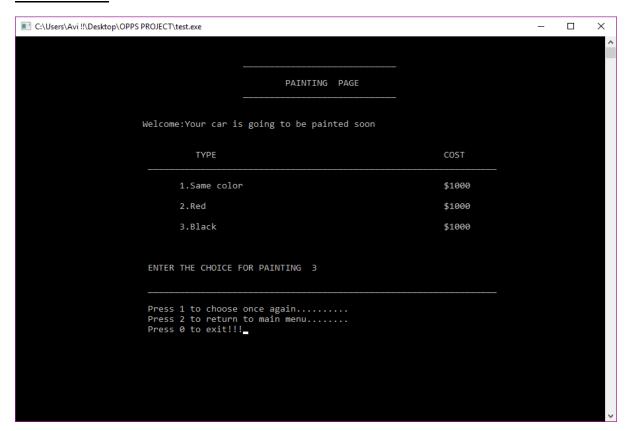
### **WASHING:**



### **ACCIDENTAL:**

```
■ C:\Users\Avi !!\Desktop\OPPS PROJECT\test.exe
                                                                                                                          \times
                                                 ACCIDENTAL PAGE
                           OOPs! Your vehicle got a accidental damage
                           Only these things should be recovered :
                                      TYPE
                                  1.liquid leakage
                                                                                              $500
                                                                                              $1000
                                  3.Damaged headlight
                                                                                              $1200
                                  4.Break fail
                                                                                              $2000
                  CHARGES will be taken if your vehicle is out of insurancy policy:
                 ENTER YOUR CHOICE : 2
                            Press 1 to choose once again......
Press 2 to return to main menu.....
Press 0 to exit!!!_
```

#### **PAINTING:**



### **REGULAR SERVICE:**

```
C:\Users\Avi!\Desktop\OPPS PROJECT\test.exe — X

REGULAR SERVICE

_______

We will provide you these services in this PACKAGE:

1.Car washing
2.denting painting
3.polishing and oiling greesing

Press any key to opt this: D

______

Press 1 to choose once again......

Press 2 to return to main menu.....

Press 0 to exit!!
```

#### **PARTS REPLACEMENT:**

```
■ C:\Users\Avi !!\Desktop\OPPS PROJECT\test.exe
                                                                                                                                                \times
                                                                 PART REPLACEMET PAGE
                                Which part you want to replace:
                                       1.Window glass
                                                                                                        $1000
                                                                                                        $5000
                                      3.Stearing
                                                                                                        $2000
                                       4.Mirrors
                                                                                                        $2500
                                      5.Wheel
                                                                                                        $4000
                    ENTER YOUR CHOICE:
                               Press 1 to choose once again......

Press 2 to return to main menu.....

Press 0 to exit!!!
```

### **BILL:**

```
C:\Users\Avi !!\Desktop\OPPS PROJECT\test.exe
                                                                                                                                                                                                           ×
                                                                                                   YOUR BILL
                                          Customer's name: AVINASH
address: sdajdsa,asdkjad,delhD9123576412123456@
Phone number: 9123576412123456@
Car number: 123456@
                                                                                                                                                   COST
                                                             SERVICES
                                                     Golden wash
Electrical fuse
Black
Red
                                                                                                                                              $1000
                                                                                                                                               $1000
$1000
$1000
$1000
                                                  Reg service
Mirrors
                                                                                                                                               $5000
$2500
                                                                          TOTAL COST:
                                                                                                                                  $11500
                            Thankyou for visiting: Hoping you are satisfied and happy with the service % \left( 1\right) =\left( 1\right) \left( 1\right) 
Process exited after 457.6 seconds with return value 0
Press any key to continue . . . _
```