#include <iostream>

using namespace std;

class Vehical

{

int price,milege;

public:

void get\_vehical()

{

cout<<"\nEnter the milege:";

cin>>milege;

cout<<"\nEnter the price:";

cin>>price;

}

void display\_vehical()

{

cout<<"\nMilege:"<<milege;

cout<<"\nPrice:"<<price;

}

};

class car:public Vehical

{

int ownership\_cost;

int warranty,seating\_capacity;

string fuel\_type;

public:

void get\_car()

{

get\_vehical();

cout<<"\nEnter ownership cost:";

cin>>ownership\_cost;

cout<<"\nEnter warranty in years:";

cin>>warranty;

cout<<"\nEnter seating capacity:";

cin>>seating\_capacity;

cout<<"\nEnter fuel type(petrol/diesel):";

cin>>fuel\_type;

}

void display\_car()

{

display\_vehical();

cout<<"\nOwnership cost:"<<ownership\_cost;

cout<<"\nwarranty in years:"<<warranty;

cout<<"\nSeating capacity:"<<seating\_capacity;

cout<<"\nFuel type(petrol/diesel):"<<fuel\_type;

}

};

class Ford:public car

{

string model\_type;

public:

void getdata()

{

cout<<"Gettiung the details of Ford:";

get\_car();

cout<<"\nEnter the model type:";

cin>>model\_type;

}

void display()

{

cout<<"Displaying the details of Ford";

display\_car();

cout<<"\nModel type is:"<<model\_type;

}

};

class Audi:public car

{

string model\_type;

public:

void getdata()

{

cout<<"Gettiung the details of Audi:";

get\_car();

cout<<"\nEnter the model type:";

cin>>model\_type;

}

void display()

{

cout<<"Displaying the details of Audi";

display\_car();

cout<<"\nModel type is:"<<model\_type;

}

};

class Bike:public Vehical

{

int number\_of\_cylinders,number\_of\_gears;

string cooling\_type, wheel\_type;

int fuel\_tank\_size;

public:

void get\_bike()

{

get\_vehical();

cout<<"\nEnter the number of cylinder:";

cin>>number\_of\_cylinders;

cout<<"\nEnter the number of gears:";

cin>>number\_of\_gears;

cout<<"\nEnter cooling type(air, liquid or oil)";

cin>>cooling\_type;

cout<<"\nEnter wheel type(alloys or spokes)";

cin>>wheel\_type;

cout<<"\nEnter fuel type size(in inches)";

cin>>fuel\_tank\_size;

}

void display\_bike()

{

display\_vehical();

cout<<"\nNumber of cylinder:"<<number\_of\_cylinders;

cout<<"\nNumber of gears:"<<number\_of\_gears;

cout<<"\nBCooling type(air, liquid or oil)"<<cooling\_type;

cout<<"\nWheel type(alloys or spokes)"<<wheel\_type;

cout<<"\nFuel type size(in inches)"<<fuel\_tank\_size;

}

};

class Bajaj:public Bike

{

string make\_type;

public:

void getdata()

{

cout<<"Getting the details of Bajaj";

get\_bike();

cout<<"\nEnter the maker type:";

cin>>make\_type;

}

void display()

{

cout<<"Displaying the details of Bajaj";

display\_bike();

cout<<"\nMake type:"<<make\_type;

}

};

class Tvs:public Bike

{

string make\_type;

public:

void getdata()

{

cout<<"Getting the details of TVS";

get\_bike();

cout<<"\nEnter the maker type:";

cin>>make\_type;

}

void display()

{

cout<<"Displaying the details of TVS";

display\_bike();

cout<<"\nMake type:"<<make\_type;

}

};

int main()

{

Ford f;

Audi a;

Bajaj b;

Tvs t;

int c=1,ch,ch2,ch3;

while(c==1)

{

cout<<"\n!!!!MENU!!!!!!!";

cout<<"\n1.CAR DETAILS";

cout<<"\n2.BIKE DETAILS";

cout<<"\nEnter yuour choice:";

cin>>ch;

switch(ch)

{

case 1:

cout<<"\n1.FORD";

cout<<"\n2.AUDI";

cout<<"\nEnter yuour choice:";

cin>>ch2;

switch(ch2)

{

case 1:

f.getdata();

f.display();

break;

case 2:

a.getdata();

a.display();

break;

default:

cout<<"Worng choice!!!!";

}

break;

case 2:

cout<<"\n1.BAJAJ DETAILS";

cout<<"\n2.TVS DETAILS";

cout<<"\nEnter yuour choice:";

cin>>ch3;

switch(ch3)

{

case 1:

b.getdata();

b.display();

break;

case 2:

t.getdata();

t.display();

break;

default:

cout<<"Wrong choice!!!!!";

}

break;

default:

cout<<"Wrong choice!!!";

}

cout<<"Want to continue:";

cin>>c;

}

return 0;

}

