#include<iostream>

#include<cstring>

using namespace std;

class product

{

public:

int price,id;

string name,dom,comp\_name,doe;

void getdata(void)

{

cout<<"enter product name: " << endl;

cin>>name;

cout<<endl;

cout<<"enter company's name: " << endl;

cin>> comp\_name;

cout<<endl;

cout<<"enter product ID: " << endl;

cin>>id;

cout<<endl;

cout<<"enter product price: " << endl;

cin>>price;

cout<<endl;

cout<<"enter product date of manufacturing: " << endl;

cin>>dom;

cout<<endl;

cout<<"enter product's expiry date: " << endl;

cin>>doe;

cout<<endl;

}

};

class category1: public product

{

public:

int review\_price1;

void getprice1(void)

{

cout<<endl<<"enter review price for category 1: " << endl;

cin>>review\_price1;

}

void display(void)

{

cout<<"product name: " << name << endl;

cout<<"company's name: " << comp\_name << endl;

cout<<"product ID: " << id << endl;

cout<<"product price: " << price << endl;

cout<<"date of manufacturing: " << dom << endl;

cout<<"date of expiry: " << doe << endl;

}

};

class category2: public product

{

public:

int review\_price2;

void getprice2(void)

{

cout<<endl<<"enter review price for category 2: " << endl;

cin>>review\_price2;

}

void display(void)

{

cout<<"product name: " << name << endl;

cout<<"company's name: " << comp\_name << endl;

cout<<"product ID: " << id << endl;

cout<<"product price: " << price << endl;

cout<<"date of manufacturing: " << dom << endl;

cout<<"date of expiry: " << doe << endl;

}

};

class category3: public product

{

public:

int review\_price3;

void getprice3(void)

{

cout<<endl<<"enter review price for category 3: " << endl;

cin>>review\_price3;

}

void display(void)

{

cout<<"product name: " << name << endl;

cout<<"company's name: " << comp\_name << endl;

cout<<"product ID: " << id << endl;

cout<<"product price: " << price << endl;

cout<<"date of manufacturing: " << dom << endl;

cout<<"date of expiry: " << doe << endl;

}

};

int main()

{

cout<<" !!!WELCOME!!! " << endl;

cout<<"THE PRODUCTS CAN BE CLASSIFIED UNDER 3 CATEGORIES WHICH ARE: " << endl << "CATEGORY 1" << endl << "CATEGORY 2" << endl << "CATEGORY 3" << endl;

cout<<"THEREFORE ENTER THE APPROPRIATE PRODUCT UNDER THE APPROPRIATE CATEGORY" << endl<<endl;

int n1,n2,n3;

int i;

cout<<"enter number of products for category 1: " << endl;

cin>>n1;

cout<<"enter number of products for category 2: " << endl;

cin>>n2;

cout<<"enter number of products for category 3: " << endl;

cin>>n3;

category1 obj1[n1];

category2 obj2[n2];

category3 obj3[n3];

for(i=0; i<n1; i++)

{

cout<<endl<<"for category: 1 " << endl;

obj1[i].getdata();

obj1[i].display();

}

cout<<endl;

obj1[n1].getprice1();

for(i=0; i<n2; i++)

{

cout<<endl<<"for category: 2 " << endl;

obj2[i].getdata();

obj2[i].display();

}

cout<<endl;

obj2[n2].getprice2();

for(i=0; i<n3; i++)

{

cout<<endl<<"for category: 3 " << endl;

obj3[i].getdata();

obj3[i].display();

}

cout<<endl;

obj3[n3].getprice3();

return 0;

}