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Ex. 6.1b
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#include <iostream>
using namespace std;
int main()
    int *pInt = new int; // claim a piece of memory in Free Store with size of
an integer
    *pInt = 9;
    cout << "The value at pInt: " << *pInt << endl;</pre>
    delete pInt;
    pInt=0;
    return 0;
}
#include <iostream>
using namespace std;
int main()
    int SomeVariable = 5;
    cout << "SomeVariable: " << SomeVariable << "\n";</pre>
    int *pVar = & SomeVariable;
    *pVar = 9; //we are not assigning a pointer but the variable pointed by the
pointer.
   cout << "SomeVariable: " << *pVar << "\n";</pre>
    return 0;
}
Exercise 6.1c
#include <iostream> //For cout, cin
using namespace std;
                    //Declare the class object
class Cat
{
    public:
                    //Constructor
        Cat();
                   //Destructor
        ~Cat();
        void SetAge (int age);
        int GetAge() const;
        void SetWeight (int weight);
        int GetWeight() const;
    private:
        int itsAge;
        int itsWeight;
} ;
Cat::Cat()
    itsAge = 5;
    itsWeight = 10;
Cat::~Cat()
    cout << "Before delete, the cat's age is " << itsAge << " and weight is "</pre>
<< itsWeight << ".\n\n";
int Cat::GetAge() const
```

```
return itsAge;
void Cat::SetAge(int age)
    itsAge = age;
}
int Cat::GetWeight() const
   return itsWeight;
void Cat::SetWeight(int weight)
    itsWeight = weight;
}
void catProgram()
                            //Function for create and modify cat
    int input age = 0;
    int input_weight = 0;
    Cat *Felix = new Cat;
                             //Create Felix with initial values, Felix is a
pointer of an object of Cat
    cout << "Felix's initial age is " << Felix->GetAge() << " and weight is "</pre>
<< Felix->GetWeight() << ".\n\n";</pre>
    //Ask user to input age and weight after initialized
    cout << "Please enter Felix age: ";</pre>
    cin >> input age;
    Felix->SetAge(input age);
    cout << "Please enter Felix weight: ";</pre>
    cin >> input weight;
    Felix->SetWeight(input weight);
    cout << "Felix's current age is " << Felix->GetAge() << " and weight is "</pre>
<< Felix->GetWeight() << ".\n\n";</pre>
    char choice = '\0'; //Menu selection
    do
    {
        //Print menu
        cout << "*******************************
n";</pre>
        cout << "a) Enter the age and weight again\n";</pre>
        cout << "b) Destroy Felix and create again\n";</pre>
        cout << "c) Quit the program\n";</pre>
        cout << "******************************
n";</pre>
        cout << "What do you want to do? (a, b or c) ";</pre>
        cin >> choice;
        switch (choice)
        {
            case 'a':
            case 'A':
                //Ask user to input age and weight again
                 cout << "Please enter Felix age again: ";</pre>
                cin >> input_age;
                Felix->SetAge(input age);
                 cout << "Please enter Felix weight again: ";</pre>
                 cin >> input weight;
                 Felix->SetWeight(input weight);
```

```
cout << "Felix's age is " << Felix->GetAge() << " and weight</pre>
is " << Felix->GetWeight() << ".\n\n";
                 break;
             case 'b':
             case 'B':
                 Felix; //Destroy Felix object
Felix = new Cat; //Create Folia
break:
             case 'c':
             case 'C':
                 delete Felix;
                                       //Destroy Felix object
                  cout << "Goodbye!!\n\n";</pre>
                 break;
             default:
                 cout << "Invalid input!!!\n\n";</pre>
    }while (!(choice == 'c' || choice == 'C'));
}
void main()
    char choice = '\0';
                                 //Menu selection
                              //Menu serection
//Quit program when it is false
    bool run flag = true;
    do
    {
        cout << "Do you want to create Felix? (y/n) ";</pre>
        cin >> choice;
         switch (choice)
             case 'y':
             case 'Y':
                 catProgram(); //Call function for cat
                 run flag = false;
                 break;
             case 'n':
             case 'N':
                 cout << "Bye!!\n\n";</pre>
                 run flag = false;
                 break;
             default:
                 cout << "Invalid input!!!\n\n";</pre>
                 break;
    }while (run_flag);
}
```