## Homework 6

## Computer Programming (II) Spring Semester, 2021

Please modify the following program so that (1) each time the user types 1, the program outputs "Eating dessert", (2) each time the user types 2, the program outputs "Writing using a pen", and (3) the destructors of Dessert and Pen get called upon program termination:

```
#include <iostream>
using namespace std;
class Dessert
{
public:
   ~Dessert() { cout << "Dessert destructor\n"; }
   void eat() { cout << "Eating dessert\n"; };</pre>
};
class Pen
public:
   ~Pen() { cout << "Pen destructor\n"; }
   void write() { cout << "Writing using a pen\n"; }</pre>
};
int main()
   MySmartPointer< Dessert > myMealPtr( new Dessert );
   MySmartPointer< Pen > myPenPtr( new Pen );
   char choice;
   while (cin >> choice)
       switch (choice)
           case '1':
```

## **Additional requirement:**

Please leave intact the main function, Dessert class and Pen class.

## **My Screenshot**

```
b89053@linux1:/home/student/89/b89053/IN107> ./a.out

Writing using a pen

Eating dessert

Writing using a pen

x

Pen destructor

Dessert destructor

b89053@linux1:/home/student/89/b89053/IN107>
```