

**src/SimpleLoan.cpp**

```
1 // Title : SimpleLoan.cpp
2 // Desc : Implementation for SimpleLoad class which is derived from Loan class
3 // Name : An Tran
4
5 #include "SimpleLoan.h"
6
7 // constructors
8 SimpleLoan::SimpleLoan() : Loan(){};
9 SimpleLoan::SimpleLoan(float principal, float interestRate, int loanLength)
10 : Loan(principal, interestRate, loanLength, "Simple Loan"){};
11
12 // other
13 float SimpleLoan::monthlyPayment() {
14     float monthlyInterestRate = getInterestRate() / 12 / 100;
15     int totalMonths = getLoanLength() * 12;
16     return (getPrincipal() * (monthlyInterestRate * totalMonths + 1)) / totalMonths;
17 };
18
```