```
public class PensionPlanner {
    double pensionTarget;
    double currentSaving = 0;
    double annualSalary;
    double monthlySaving;
    double interestRate;

    // For Part B
    double semiAnnualRaise;

    // For Part C
    int workingMonth;
    int NoOfMonthDelay;

    public PensionPlanner(double pensionTarget, double
currentSaving, double annualSalary, double monthlySaving, double
interestRate) {
        this.pensionTarget = pensionTarget;
        this.currentSaving = currentSaving;
        this.annualSalary = annualSalary;
        this.monthlySaving = monthlySaving;
        this.interestRate = interestRate;
        this.semiAnnualRaise = 0;
    }


    // Setters
    public void setPensionTarget(double pensionTarget) {
        this.pensionTarget = pensionTarget;
    }

    public void setAnnualSalary(double annualSalary) {
        this.annualSalary = annualSalary;
    }

    public void setMonthlySaving(double monthlySaving) {
        this.monthlySaving = monthlySaving;
    }

    public void setWorkingMonth(int workingMonth) {
        this.workingMonth = workingMonth;
    }

    public void setSemiAnnualRaise(double semiAnnualRaise) {
        this.semiAnnualRaise = semiAnnualRaise;
    }

    public void setInterestRate(double interestRate) {
        this.interestRate = interestRate;
    }

    public void setNoOfMonthDelay(int NoOfMonthDelay) {
        this.NoOfMonthDelay = NoOfMonthDelay;
    }
```

```
    // Getters
    public int getWorkingMonth() {
        double pensionSaving = this.currentSaving;
        double originalAnnualSalary = this.annualSalary;
        int months = 0;

        double addToPension = (this.annualSalary / 12) *
this.monthlySaving;

        while(this.pensionTarget > pensionSaving) {
            // For Part B: Semi-annual raise
            if(months % 6 == 0 && months != 0) {
                originalAnnualSalary += originalAnnualSalary *
this.semiAnnualRaise;
                addToPension = (originalAnnualSalary / 12) *
this.monthlySaving;
            }

            // Calculate interest
            pensionSaving += pensionSaving * this.interestRate / 12;
            // Add money after interest is calculated
            pensionSaving += addToPension;

            months++;
        }

        return months;
    }

    public double getAdditionalPensionSaving() {
        double pensionSaving = this.currentSaving;
        double originalAnnualSalary = this.annualSalary;

        double addToPension = (this.annualSalary / 12) *
this.monthlySaving;

        for(int months = 0; months < this.workingMonth; months++) {
            // For raises
            if(months % 6 == 0 && months != 0) {
                originalAnnualSalary += originalAnnualSalary *
this.semiAnnualRaise;
                addToPension = (originalAnnualSalary / 12) *
this.monthlySaving;
            }
            pensionSaving += pensionSaving * this.interestRate / 12;
            pensionSaving += addToPension;
        }

        double additionalSaving = pensionSaving;
        for(int i = 0; i < this.NoOfMonthDelay; i++) {
            additionalSaving += pensionSaving * this.interestRate /
12;
        }
```

```
        return additionalSaving - pensionSaving;
    }
}
```