Lab 6: Saving for Retirement

Fill in your full name

2025-10-09

Exercise 1

```
savings <- 0
income <- 58000
interest_rate <- 0.06
savings_rate <- 0.10

for (year in 22:65) {
   savings <- savings + (income * savings_rate) + (savings * interest_rate)
}</pre>
```

[1] 1158597

Exercise 2

```
final_savings <- 1158597
annual_withdrawal <- final_savings * 0.04
annual_withdrawal</pre>
```

[1] 46343.88

Exercise 3

```
savings <- 0
income <- 58000
interest_rate <- 0.06
savings_rate <- 0.10</pre>
```

```
employer_match <- 0.05

for(year in 22:65){
   savings <- savings + (income * (savings_rate + employer_match)) + (savings * interest_rate)
}
savings</pre>
```

[1] 1737895

Exercise 4

```
savings <- 0
income <- 58000
interest_rate <- 0.06
savings_rate <- 0.10
employer_match <- 0.05

for(year in 22:65){
    savings <- savings + (income * (savings_rate + employer_match)) + (savings * interest_rate)
    income <- income + 1000
}</pre>
```

[1] 2127290

Exercise 5

```
interest_rate <- 0.06
employer_match <- 0.05

savings_early <- 0
income <- 58000

for(year in 22:65){
   if(year <= 31){
      savings_early <- savings_early + (income * (0.05 + employer_match)) + (savings_early * into the savings_early <- savings_early + (savings_early * interest_rate)
   }
   income <- income + 1000
}</pre>
```

savings_early

[1] 592770.8