adjust the above code to meet the following changes:

the two loan types are normal and emergency

collateral rates should calculate in ranges these ranges:

for standard loans:

0 collateral for loan amounts between 0 and 7999 for normal and emergency loans

8000 flat collateral fee for loan amounts between 8000 and 50000 for normal loans over a period of 2 years, 10000 flat collateral fee for loan amounts between 8000 and 50000 for emergency loans over a period of 2 years. repayment rate for both at 18%.

16% collateral fee for loan amounts between 50000 and 100000 for normal loans over a period of 2 years, 20% collateral fee for loan amounts between 50000 and 100000 for emergency loans over a period of 2 years. repayment rate for both at 18%.

15.5% collateral fee for loan amounts between 100000 and 500000 for normal loans over a period of 3 years, 20% collateral fee for loan amounts between 100000 and 500000 for emergency loans over a period of 3 years. repayment rate for both at 18%.

15% collateral fee for loan amounts between 500000 and 1000000 for normal loans over a period of 4 years, 19% collateral fee for loan amounts between 500000 and 1000000 for emergency loans over a period of 4 years. repayment rate for both at 17%.

13% collateral fee for loan amounts between 1000000 and 5000000 for normal loans over a period of 5 years, 18% collateral fee for loan amounts between 1000000 and 5000000 for emergency loans over a period of 5 years. repayment rate for both at 16%.

12% collateral fee for loan amounts between 5000000 and 10000000 for normal loans over a period of 6 years, 17% collateral fee for loan amounts between 5000000 and 10000000 for emergency loans over a period of 6 years. repayment rate for both at 16%.

11% collateral fee for loan amounts between 10000000 and 50000000 for normal loans over a period of 8 years, 16% collateral fee for loan amounts between 10000000 and 50000000 for emergency loans over a period of 8 years. repayment rate for both at 15%.

10% collateral fee for loan amounts between 50000000 and 100000000 for normal loans over a period of 10 years, 16% collateral fee for loan amounts between 50000000 and 100000000 for emergency loans over a period of 10 years. repayment rate for both at 15%.

for mortgage loans:

0 collateral for loan amounts between 0 and 99999 for normal and emergency loans

24% collateral fee for loan amounts between 100000 and 500000 for normal loans over a period of 15 years, 29% collateral fee for loan amounts between 100000 and 500000 for emergency loans over a period of 15 years. repayment rate for both at 6.5%.

24% collateral fee for loan amounts between 500000 and 1000000 for normal loans over a period of 15 years, 29% collateral fee for loan amounts between 500000 and 1000000 for emergency loans over a period of 15 years. repayment rate for both at 6.5%.

22% collateral fee for loan amounts between 1000000 and 5000000 for normal loans over a period of 20 years, 27% collateral fee for loan amounts between 1000000 and 5000000 for emergency loans over a period of 20 years. repayment rate for both at 6%.

22% collateral fee for loan amounts between 5000000 and 10000000 for normal loans over a period of 20 years, 26% collateral fee for loan amounts between 5000000 and 10000000 for emergency loans over a period of 20 years. repayment rate for both at 5%.

20% collateral fee for loan amounts between 10000000 and 50000000 for normal loans over a period of 20 years, 26% collateral fee for loan amounts between 10000000 and 50000000 for emergency loans over a period of 20 years. repayment rate for both at 4.5%.

20% collateral fee for loan amounts between 50000000 and 100000000 for normal loans over a period of 30 years, 25% collateral fee for loan amounts between 50000000 and 100000000 for emergency loans over a period of 30 years. repayment rate for both at 4.5%.

for student loans:

0 collateral for loan amounts between 0 and 7999 for normal and emergency loans

8000 flat collateral fee for loan amounts between 8000 and 50000 for normal loans over a period of 10 years, 10000 flat collateral fee for loan amounts between 8000 and 50000 for emergency loans over a period of 10 years. repayment rate for both at 4.5%.

15% collateral fee for loan amounts between 50000 and 100000 for normal loans over a period of 10 years, 20% collateral fee for loan amounts between 50000 and 100000 for emergency loans over a period of 10 years. repayment rate for both at 4.5%.

15% collateral fee for loan amounts between 100000 and 500000 for normal loans over a period of 10 years, 19% collateral fee for loan amounts between 100000 and 500000 for emergency loans over a period of 10 years. repayment rate for both at 5%.

Student loans over 500000 aren’t eligible to be collected.

for medical loans:

0 collateral for loan amounts between 0 and 7999 for normal and emergency loans

8000 flat collateral fee for loan amounts between 8000 and 50000 for normal loans over a period of 2 years, 10000 flat collateral fee for loan amounts between 8000 and 50000 for emergency loans over a period of 2 years. repayment rate for both at 17%.

15% collateral fee for loan amounts between 50000 and 100000 for normal loans over a period of 2 years, 19% collateral fee for loan amounts between 50000 and 100000 for emergency loans over a period of 2 years. repayment rate for both at 17%.

15% collateral fee for loan amounts between 100000 and 500000 for normal loans over a period of 3 years, 18% collateral fee for loan amounts between 100000 and 500000 for emergency loans over a period of 3 years. repayment rate for both at 16%.

15% collateral fee for loan amounts between 500000 and 1000000 for normal loans over a period of 4 years, 18% collateral fee for loan amounts between 500000 and 1000000 for emergency loans over a period of 4 years. repayment rate for both at 15%.

13% collateral fee for loan amounts between 1000000 and 5000000 for normal loans over a period of 5 years, 16% collateral fee for loan amounts between 1000000 and 5000000 for emergency loans over a period of 5 years. repayment rate for both at 15%.

12% collateral fee for loan amounts between 5000000 and 10000000 for normal loans over a period of 6 years, 16% collateral fee for loan amounts between 5000000 and 10000000 for emergency loans over a period of 6 years. repayment rate for both at 15%.

Medical loans over 10000000 are not eligible to be collected.