**GenAI**

**CA-II**

**Assignment**

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**Section: B**

**Q: 1 Generate a model in Python to represent a Housing loan scheme and create a chart to**

**Display the Emi based on rate of interest and reducing balance for a given period. If a customer**

**Wishes to close the loan earlier, print the interest lost distributed over the remaining no. Of**

**Months. Assume suitable data and inputs as necessary.**

**Solution:** Flowchartto understand the flow of solution for the problem statement given.

**START**

**Initialize Loan:  
principal, rate\_of\_interest, tenure\_months**

**Calculate EMI using formula**

**Generate EMI Chart**

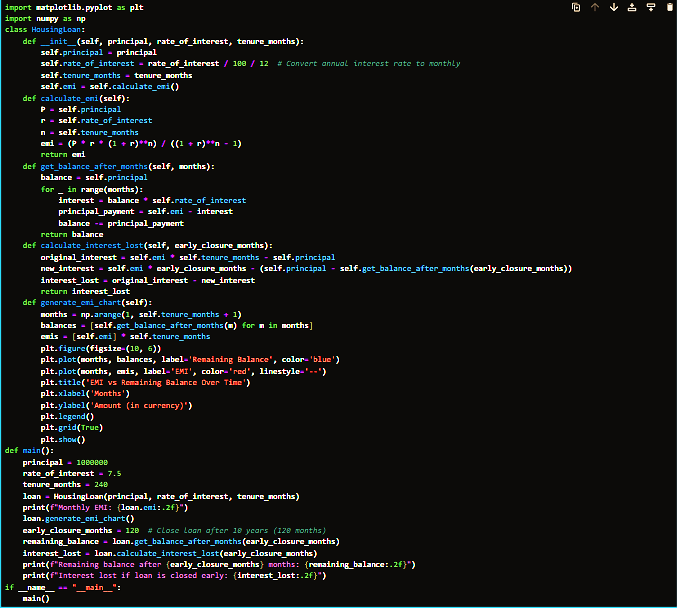
**Calculate remaining balance  
after specified months**

**Calculate interest lost  
due to early closure**

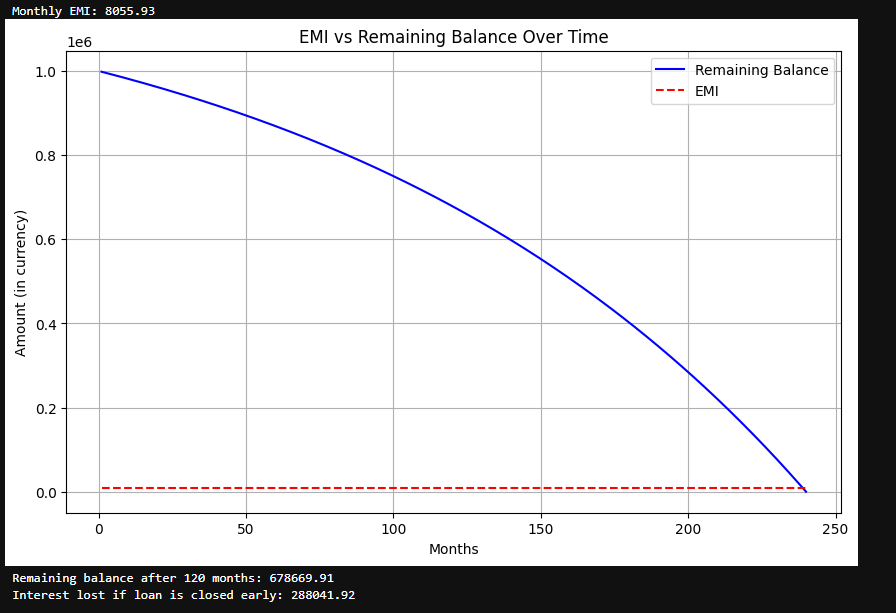
**Display EMI,  
remaining balance,  
interest lost**

**END**

**Code:**

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**Output:**

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**Q: 2 Generate a model to represent a mathematical equation, write a program to parse the**

**Equation, and ask for input for each parameter.**

**Solution:** Flowchartto understand the flow of solution for the problem statement given.

**START**

**Print “Solving f(x,y)=ax^2+by+c”**

**Get user input (a,b,c,x,y)**

**Valid input?**

**No**

**Yes**

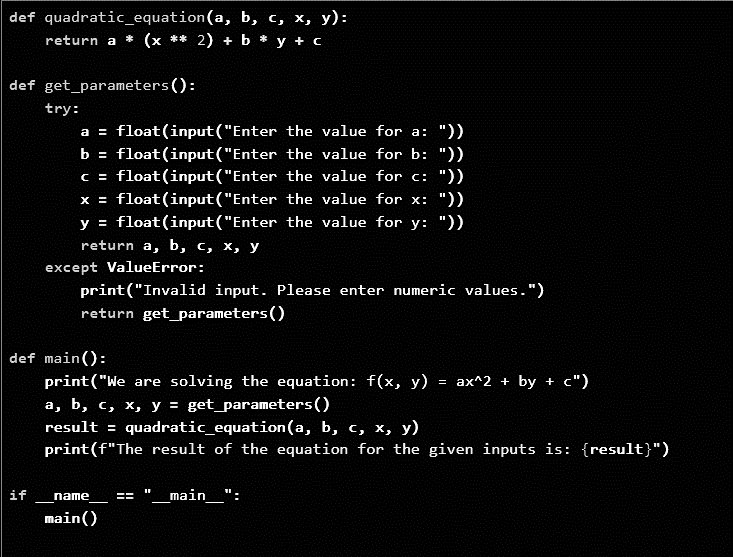
**Print “Invalid input” and return**

**Solve equation: ax^2 + by+ c**

**Print the result of the equation**

**END**

**Code:**



**Output:**

