**FinancialForcast.java**

package finance;

public class FinancialForcast {

public static double recursive(double presentValue, double growthRate, int y) {

if (y == 0) {

return presentValue;

} else {

return *recursive*(presentValue \* (1 + growthRate), growthRate, y - 1);

}

}

public static double iterative(double presentValue, double growthRate, int y) {

for (int i = 0; i < y; i++) {

presentValue \*= (1 + growthRate);

}

return presentValue;

}

public static void main(String[] args) {

double presentValue = 10000;

double growthRate = 0.08;

int y = 5;

double Recursive = *recursive*(presentValue, growthRate, y);

double Iterative = *iterative*(presentValue, growthRate, y);

System.***out***.printf("Recursive Value after %d years: ₹%.2f%n", y, Recursive);

System.***out***.printf("Iterative Value after %d years: ₹%.2f%n", y, Iterative);

}

**Output**  
  
Recursive Value after 5 years: ₹14693.28

Iterative Value after 5 years: ₹14693.28