**Data structures and Algorithms**

**Exercise 7: Financial Forecasting**

Main.java

package com.finance.example;

import java.util.\*;

public class Main {

public static void main(String[] args) {

Scanner sc=new Scanner(System.*in*);

double initialVal=sc.nextDouble();

double rateOfGrowth=sc.nextDouble();

int year=sc.nextInt();

double ans=*predictFutureVal*(initialVal,rateOfGrowth,year);

System.*out*.print(ans);

}I

private static double predictFutureVal(double initialVal, double rateOfGrowth, int year) {

if(year==0)

return initialVal;

else

return *predictFutureVal*(initialVal,rateOfGrowth,year-1)\*(1+rateOfGrowth);

}

}

**Input:**

100 5 4

**Output:**

129600.0

