**Week-1**

**Data Structures And Alogorithm**

**Exercise – 2 Financial Forecast**

**FinanacialForeCast.java**

import java.util.Scanner;  
public class FinancialForecast {  
 public static double futureValue(double principle , double rate , int year){  
 double result = principle;  
 for(int i = 0;i<year ; i++){  
 result\*=(1+rate);  
 }  
 return result;  
 }  
 public static void main(String[] args) {  
 Scanner ss = new Scanner(System.*in*);  
 System.*out*.println("Enter the Initial Investement:");  
 double principle = ss.nextDouble();  
 System.*out*.println("Enter the annual growth rate in %");  
 double rate= ss.nextDouble()/100.0;  
 System.*out*.println("Enter the Number of years for prediction");  
 int years = ss.nextInt();  
 double future = *futureValue*(principle,rate,years);  
 System.*out*.println("Predicted Value after" + years +"years:"+future);}  
}

**Output:**

