

## **Problem description**

Design a program that accept two values, namely initials amount (P) and interest Rate r) from the standard input. The program must then use P and R to compute the final amount (A) by using the formula  $A = P (1 + r)$ . Lastly the program must send the computed value of final amount(A) along with the interest rate (r) to the standard output. Further details of the problem are explained in the following sub-sections below.

## **Input and Output**

<u><b>Input</b></u>		
<i>Input Description</i>		<i>Mechanism</i>
Decimal Value(positive)		Standard Input Stream
Decimal Value (positive or negative)		Standard Input Stream
<u><b>Output</b></u>		
<i>output Description</i>		<i>Stream</i>
Decimal Value (Initial Amount)		Standard Output Stream
Decimal Value (Interest Rate)		Standard Output Stream
Decimal Value (Interest Rate)		Computed from the formula
<u><b>Data Format</b></u>		
<i>Identifier</i>	<i>Data Type</i>	<i>Description</i>
dblP	Double	Initial Amount
dblRate	Double	Interest Rate
dblA	Double	Final amount

## **Pseudo Code**

```

Let dblP <-- 0.0
Let dblR <-- 0.0

dblP <-- Input
dblRate <-- Input

dblA <-- Apply Formula

dblA <-- Output
dblRate <-- IOOutput

```

## UML Activity Diagram

