

SET A

Exercise #5: Write a program which calculates and prints the monthly paycheck for an employee
The net salary is calculated after the following deductions and additions:

<u>Deductions:</u>	<u>Additions:</u>
Retirement Plan: 5%	Housing Allowence: 20%
Health Insurance: 750 AED	Transportation Allowence: 200

Your program should prompt the user to input the gross amount. The output should be like this:

Gross Amount: 10000.00	

Retirement Plan:	- 500.00 AED
Health Insurance:	- 750.00 AED
Housing Allowence:	+ 2000.00 AED
Transportation Allowence:	+ 200.00 AED

Net Salary:	10950.00 AED

Write a Java program to estimate the value of m in the following equation for a given value x and t .

$$m = \log_{10} \left(\frac{\sqrt{3}t^2}{\sqrt{t} + x} \right) + \left(\frac{\sqrt{t + 3}}{t^2} \right)^t$$

SET B

Exercise #2: Design and Implement a program which calculates and prints the monthly paycheck for an employee. The net salary is calculated after taking the following deductions:

Federal Income Tax:	15%
State Tax:	3.5%
Retirement Plan:	5%
Health Insurance:	750

Your program should prompt the user to input the gross amount. The output should be like this:

Gross Amount:	10000.00 dirhams
Federal Income Tax:	1500.00 dirhams
State Tax:	350.00 dirhams
Retirement Plan:	500.00 dirhams
Health Insurance:	750.00 dirhams
Net Salary:	6900.00 dirhams

Write a Java program to estimate the value of m in the following equation for a given value x and t .

$$m = \log_{10} \left(\left(\frac{t^2}{\sqrt{\sqrt{t}}} \right)^t \right)$$