

## Practice Pre-Mid Contents

**Task 01:** Print your name in two to three lines like:

Ahmad

Qureshi

### Task 02: Print your name using stars like:

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    * *
  * * * *
*           *
*           *
*           *
*           *
* * * * *

```

### Task 03: Print box with stars, lines, dots etc.

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*****
*
*
*
*
*
*Int
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*
*****

```

**Task 04:** Input an integer. Print its additive inverse, square and cube. See sample run:

### Sample Runs:

Number:	-4
Additive Inverse:	4
Square:	16
Cube:	-64

**Task 05:** Input two integers. Print their sum, difference, product, remainder & average?

**Task 06:** Input an integer as x and evaluate expression  $4x^2 - 3x + 5$

**Task 07:** Input an integer as x and evaluate expression  $-2x^3 + 3x^2 + 3x - 7$

**Task 08:** Input two integers as x and y. Evaluate expression  $2x^2 - 5y^3$

**Task 09:** Input two integers as x and y. Evaluate expression  $\frac{2x^2-5y^3}{x}$

**Task 10:** Input three integers as a, b & c. Evaluate expression  $\frac{4x}{2x^2-5y^3}$

**Task 11:** Input three integers as a, b & c. Find quadratic roots assuming that roots will be always real

$$\frac{-b+\sqrt{b^2-4ac}}{2a}, \frac{-b-\sqrt{b^2-4ac}}{2a}$$