| NAME: | TRISECT INSTITUTE | JPR-M |
|-------|-------------------|-------|
| DATE: | Java Practice     |       |

| Task 1     | Given n as input, print | Given n as input, print the following pattern. |  |
|------------|-------------------------|--|--|
| Test Cases | Input                   | Expected Output                                |  |
|            | n=2                     | M1   |  |
|            |                         | M2   |  |
| Test Cases | n=3                     | M1   |  |
|            |                         | M2   |  |
|            |                         | M3   |  |

| Task 2     | Given n as input, print the following pattern |                 |
|------------|---|-----------------|
|            | Input   | Expected Output |
|            | n=3   | Α               |
| Test Cases |   | AA              |
|            |   | AAA             |
|            | n=2   | A               |
|            |   | AA              |

| Task 3     | Given n as input, print the following pattern. |                 |
|------------|--|-----------------|
| Test Cases | Input  | Expected Output |
|            | n=2  | A1B1            |
|            |  | A2B2            |
| Test cases | n=3  | A1B1            |
|            |  | A2B2            |
|            |  | A3B3            |

| Task 4     | Given n as input, prin | Given n as input, print the cubes of the first n numbers |  |
|------------|------------------------|--|--|
|            | Input                  | Expected Output  |  |
|            | n=2                    | 1  |  |
|            |                        | 8  |  |
| Test Cases | n=4                    | 1  |  |
|            |                        | 8  |  |
|            |                        | 27   |  |
|            |                        | 64   |  |

| Task 5     | Given n as input, print the remainder of the first n numbers when divided by 3 |                 |
|------------|--|-----------------|
|            | Input  | Expected Output |
|            | n=3  | num=1:rem:1     |
|            |  | num=2:rem:2     |
| Test Cases |  | num=3:rem:0     |
| Test cases | n=4  | num=1:rem:1     |
|            |  | num=2:rem:2     |
|            |  | num=3:rem:0     |
|            |  | num=4:rem:1     |

| Task 6     | Given n as input, print | Given n as input, print the following pattern. |  |
|------------|-------------------------|--|--|
|            | Input                   | Expected Output                                |  |
|            | n=2                     | y1   |  |
|            |                         | y1y2   |  |
| Test Cases | n=4                     | y1   |  |
|            |                         | y1y2   |  |
|            |                         | y1y2y3<br>y1y2y3y4                             |  |
|            |                         | y1y2y3y4                                       |  |

| Task 7     | Given n as input, print the following pattern |                 |
|------------|---|-----------------|
|            | Input   | Expected Output |
|            | n=2   | 1*1-1=0         |
|            |   | 2*2-2=2         |
| Test Cases | n=4   | 1*1-1=0         |
|            |   | 2*2-2=2         |
|            |   | 3*3-3=6         |
|            |   | 4*4-4=12        |

| Task 8     | Given n as input, print the following pattern |                 |
|------------|---|-----------------|
|            | Input   | Expected Output |
|            | n=2   | 1+1*1+1*1*1=3   |
|            |   | 2+2*2+2*2*2=14  |
| Test Cases | n=4   | 1+1*1+1*1*1=3   |
|            |   | 2+2*2+2*2*2=14  |
|            |   | 3+3*3+3*3*3=39  |
|            |   | 4+4*4+4*4*4=84  |
|            |   |                 |