ASSIGNMENT _ 1

Solution:

```
package College;

import java.util.Scanner;

static void patternA(int[][] arr, int rows, int cols) { lusage
    int sum = 0;
    for (int i = 0; i < cols; i++) {
        sum += arr[0][i];
        System.out.print(arr[0][i] + " ");
    }

    System.out.print(n();
    int middleRow = rows / 2;
    for (int i = 1; i < rows; i++) {
        sum += arr[i][o];
        system.out.print(arr[i][d] + " ");
    } else if [i == 0] i] == cols - 1) {
        System.out.print(arr[i][j] + " ");
    } else if [i == 0] i] == cols - 1) {
        System.out.print(arr[i][j] + " ");
    } else if [i == 0];
    System.out.print(0];
}

sum -= arr[middleRow][e] + arr[middleRow][cols - 1];
System.out.println("Sum of the pattern is: " + sum);
}
</pre>
```

OUTPUT:

X

```
Enter rows: 5
Enter cols: 5
1 2 3 4 5
1 2 3 4 5
1 2 3 4 5
1 2 3 4 5
1 2 3 4 5
0 2 3 4 5
0 2 3 4 5
1 2 3 4 5
1 2 3 4 5
1 2 3 4 5
1 2 3 4 5
1 2 3 4 5
1 2 3 4 5
1 2 3 4 5
1 2 3 4 5
1 2 3 4 5
1 2 3 4 5
1 2 3 4 5
1 2 3 4 5
1 2 3 4 5
Enter Pattern: x
1 0 0 0 5
0 2 0 4 0
0 0 3 0 0
0 2 0 4 0
1 0 0 0 5
Sum of the pattern is: 27
```

Α

```
Enter rows: 5
Enter cols: 5
1 2 3 4 5
1 2 3 4 5
1 2 3 4 5
1 2 3 4 5
1 2 3 4 5
0 2 3 4 5
0 3 4 5
1 2 3 4 5
1 2 3 4 5
1 2 3 4 5
1 2 3 4 5
1 2 3 4 5
1 2 3 4 5
1 2 3 4 5
1 2 3 4 5
1 2 3 4 5
1 2 3 4 5
1 2 3 4 5
1 2 3 4 5
1 0 0 0 5
1 2 3 4 5
1 0 0 0 5
1 0 0 0 5
5 5 Sum of the pattern is: 48
```

```
Enter rows: 5
Enter cols: 5
1 2 3 4 5
1 2 3 4 5
1 2 3 4 5
1 2 3 4 5
1 2 3 4 5
0 riginal Matrix:
1 2 3 4 5
1 2 3 4 5
1 2 3 4 5
1 2 3 4 5
1 2 3 4 5
1 2 3 4 5
1 2 3 4 5
1 2 3 4 5
1 2 3 4 5
1 2 3 4 5
1 2 3 4 5
Enter Pattern: d
1 2 3 4 5
1 0 0 0 5
1 0 0 0 5
1 0 0 0 5
1 2 3 4 5
Sum of the pattern is: 48
```

\mathbf{Z}

```
Enter rows: 5
Enter cols: 5
1 2 3 4 5
1 2 3 4 5
1 2 3 4 5
1 2 3 4 5
1 2 3 4 5
0 riginal Matrix:
1 2 3 4 5
1 2 3 4 5
1 2 3 4 5
1 2 3 4 5
1 2 3 4 5
1 2 3 4 5
1 2 3 4 5
1 2 3 4 5
1 2 3 4 5
1 2 3 4 5
Enter Pattern: z
1 2 3 4 5
0 0 0 4 0
0 0 3 0 0
0 2 0 0 0
1 2 3 4 5
Sum of the pattern is: 39
```