

```
import java.util.Scanner;
class sum_upperdigonal {
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        System.out.print("Enter number of rows: ");
        int n = sc.nextInt();
        System.out.print("Enter number of columns: ");
        int m = sc.nextInt();
        int[][] a = new int[n][m];
        System.out.println("Enter matrix elements:");
        for(int i = 0; i < n; i++) {
            for(int j = 0; j < m; j++) {
                a[i][j] = sc.nextInt();
            }
        }
        int sum = 0;
        for(int i = 0; i < n; i++) {
            for(int j = 0; j < m; j++) {
                if(i < j) {
                    sum = sum + a[i][j];
                }
            }
        }
        System.out.println("Sum of upper diagonal elements " + sum);
    }
}
```