```
PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL  PORTS

meetbatra@Meets-MacBook-Air BPIT % gcc main.c -o main
meetbatra@Meets-MacBook-Air BPIT % ./main
Enter the number of variables: 3
Enter the augmented matrix:
2 1 -1 8
-3 -1 2 -11
-2 1 2 -3

The solution is:
x1 = 2.00
x2 = 3.00
x3 = -1.00

Meet Batra ECE-A(101)%
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```

main.c

```c
#include <stdio.h>
#define MAX 10

void gaussJordan(float a[MAX][MAX+1], int n) {
    int i, j, k;
    float ratio;

    for (i = 0; i < n; i++) {
        if (a[i][i] == 0.0) {
            printf("Divide by zero detected! Exiting...\n");
            return;
        }
        float temp = a[i][i];
        for (j = 0; j <= n; j++)
            a[i][j] = a[i][j] / temp;

        for (j = 0; j < n; j++) {
            if (i != j) {
                ratio = a[j][i];
                for (k = 0; k <= n; k++) {
                    a[j][k] = a[j][k] - ratio * a[i][k];
                }
            }
        }
    }

    printf("\nThe solution is: \n");
    for (i = 0; i < n; i++) {
        printf("x%d = %.2f\n", i + 1, a[i][n]);
    }
}

int main() {
    int n, i, j;
    float a[MAX][MAX+1];

    printf("Enter the number of variables: ");
    scanf("%d", &n);

    printf("Enter the augmented matrix:\n");
    for (i = 0; i < n; i++) {
        for (j = 0; j <= n; j++) {
            scanf("%f", &a[i][j]);
        }
    }

    gaussJordan(a, n);

    printf("\nMeet Batra ECE-A(101)");

    return 0;
}
```