Assignment 8

Code 1

```c
/*Write a program to print the following pattern: (for input n =4)
1
2 3
4 5 6
7 8 9 10
*/

#include <stdio.h>
int main()
{
    int rows, i, j, number = 1;

    printf("Enter the Number of Rows : ");
    scanf("%d", &rows);

    for (i = 1; i <= rows; i++)
    {
        for (j = 1; j <= i; j++)
        {
            printf("%d ", number);
            number++;
        }

        printf("\n");
    }
    return 0;
}
```

Output

```
Enter the Number of Rows : 4
1
2 3
4 5 6
7 8 9 10


...Program finished with exit code 0
Press ENTER to exit console.
```

Code 2

```c
/*Write a program to print a pyramid with odd values in each row. For
example: (for n = 3)
     *
   * * *
 * * * * *
*/

#include <stdio.h>
int main()
{
    int i, space, rows, k = 0;

    printf("Enter the Number of Rows: ");
    scanf("%d", &rows);

    for (i = 1; i <= rows; i++, k = 0)
    {
        for (space = 1; space <= rows - i; space++)
        {
            printf("  ");
        }

        while (k != 2 * i - 1)
        {
            printf("* ");
            k++;
        }
        printf("\n");
    }
    return 0;
}
```

Output

```
Enter the Number of Rows: 3
     *
   *  *  *
*  *  *  *  *



...Program finished with exit code 0
Press ENTER to exit console.
```