

## CSE 281

### Class Test – 3

1. Write a C program to print the following pattern. The program will ask the user to input the number of lines (N). This given pattern is for N = 5. (10)

```
1
1 2
1 2 3
1 2 3 4
1 2 3 4 5
```

```
1 #include<stdio.h>
2
3 int main()
4 {
5     int i, j, N;
6     printf("Enter N: ");
7     scanf("%d", &N);
8     for ( i = 1; i <= N; i++)
9     {
10        for (j=1; j <=i ; j++)
11        {
12            printf(" %d ", j);
13        }
14        printf("\n");
15    }
16 }
17
18
```

2. Write a C function that takes a two-dimensional array as input and returns the sum of row with maximum sum. You don't need to write any main function, and you don't need to scan any number from the user. The function will return 28 (sum of 7, 9, 4 and 8) for the following array. (10)

4	6	2	5
7	9	4	8
6	9	3	7

```
1 #include<stdio.h>
2
3 int rowSum(int r, int c, int a[][c])
4 {
5     int i, j, sum, max;
6     for ( i = 0; i < r; i++ )
7     {
8         sum = 0;
9         for ( j = 0; j < c; j++ )
10        {
11            sum = sum + a[i][j];
12        }
13        if (sum > max || i == 0)
14        {
15            max = sum;
16        }
17    }
18    return max;
19 }
20
```