

CSE 109

CT-1

Time: 40 minutes

Total Marks: 20

Name:

Student Id.:

1. Write a code which generates the following shape

Input: 6

Input: 4

Output:

Output:

```
1 2 3 4 5 6 6 5 4 3 2 1
1 2 3 4 5      5 4 3 2 1
1 2 3 4      4 3 2 1
1 2 3      3 2 1
1 2      2 1
1      1
1      1
1 2      2 1
1 2 3      3 2 1
1 2 3 4 5      5 4 3 2 1
1 2 3 4 5 6 6 5 4 3 2 1
```

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

2. Write the output of the following code segment

```
for(int i=1; i<=5; i++)
{
    for(int j=1; j<i; j++)
    {
        printf("%d, %d\n", i, j);
    }
    i++;
    j++;
}
```

Ans:

3, 1  
3, 2  
5, 1  
5, 2  
5, 3  
5, 4