

Lab 11 – 20-11-2023

Task 1: Write a program to input N and print following pattern:

Sample Run:

```
N : 5
1
1 2
1 2 3
1 2 3 4
1 2 3 4 5
2 3 4 5
3 4 5
4 5
5
```

Task 2: Write a program to input N and print following pattern:

N: 4

```

  *
 *
*
*
 *
 *
 *
*
*
*
 *
 *
```

Task 3: Write a program to input N and print following pattern:

Sample Run:

```
N: 5
K: 3
{(1), (1, 2), (1, 2, 3) }
{(1), (1, 2), (1, 2, 3) }
{(1), (1, 2), (1, 2, 3) }
{(1), (1, 2), (1, 2, 3) }
{(1), (1, 2), (1, 2, 3) }
```

Task 4: Write a program to input N (should be greater than equal 10). Check, if number is not prime, print divisors of all the integers from 4 to N.

Sample Run:

```
N: 8
N: 16
4: 1 2 4
5: Prime
6: 1 2 3 6
7: Prime
8: 1 2 4 8
9: 1 3 9
10: 1 2 5 10
11: Prime
12: 1 2 3 4 6 12
13: Prime
14: 1 2 7 14
15: 1 3 5 15
16: 1 2 4 8 16
```

(Wrong input)