

Exercise-2

1. Read a sequence of characters from the terminal until **q** is read. Output the largest character read, not including the **q**.
2. Write a program that displays the following pattern

1	2	3	4	5
2	4	6	8	10
3	6	9	12	15
4	8	12	16	20
5	10	15	20	25
6	12	18	24	30
7	14	21	28	35
8	16	24	32	40

3. Write a program that given r , a , and n , displays the first n terms of the corresponding geometric progression.

4. Print the sum of the reciprocals of the first 100 natural numbers.

5. **write a program to print the following patterns**

1
12
123
1234
12345

6. **Write a program to print the following patterns**

1
12
123
1234
12345
1234
123
12
1

7. **Program 3: Write a program to print the following patterns**

12345
1234
123

12
1
12
123
1234
12345

8. **Write a program to print the following patterns**

*
**

9. Write a program to print the following patterns

**
*

10. Write a program to print the following patterns

**
*

11. Write a program to print the following patterns

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

12. **Write a program to print the following patterns**

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

13. **Program 9: Write a program to print the following patterns**

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

14. Write a program to print the following patterns

```
$ *** $
* $ $ *
* $ *
* $ $ *
$ *** $
```

15. Write a program to print the following patterns

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

16. Write a program to print the following patterns

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

17. Write a program to print the following patterns

```
1
2 3
3 4 5
4 5 6 7
5 6 7 8 9
```