1. Write a program to print a pattern like right angle triangle with numbers which will repeat a number in a row.

The pattern is as follows :

1

22

333

4444

```
package com.coparray.main;

public class RightAnglePattern {

	public static void main(String[] args) {
		 for (int i = 1; i <= 4; i++) {
		for (int j = 1; j <= i; j++) {
		    System.out.print(i);
		}
		System.out.println();
	  }
	}

}
```

```
<terminated> RightAngleP
1
22
333
4444
```

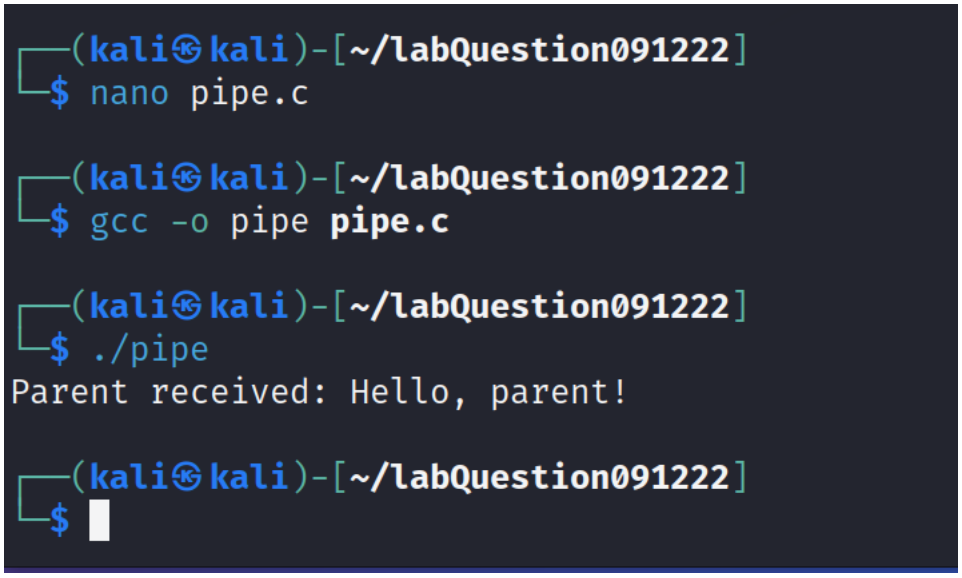
2. Write a C Program to create two processes where child process sends message to parent. Implement it using pipe system call. pipe ().

File Actions Edit View Help

GNU nano 6.4

```c
#include <stdio.h>
#include <unistd.h>
#include <string.h>

int main() {
    int pipefd[2];
    char buffer[100];
    pid_t pid;
    int ret;

    ret = pipe(pipefd);
    if (ret == -1) {
        perror("pipe");
        return 1;
    }

    pid = fork();
    if (pid == -1) {
```

```c
    ret = pipe(pipefd);
    if (ret == -1) {
        perror("pipe");
        return 1;
    }

    pid = fork();
    if (pid == -1) {
        perror("fork");
        return 1;
    }

    if (pid == 0) {
        // Child process
        close(pipefd[0]);
        write(pipefd[1], "Hello, parent!", strlen("Hello, parent!"));
        close(pipefd[1]);
    } else {
        // Parent process
        close(pipefd[1]);
        read(pipefd[0], buffer, 100);
```


┌──(kali㉿kali)-[~/labQuestion091222]
└─$ nano pipe.c
┌──(kali㉿kali)-[~/labQuestion091222]
└─$ gcc -o pipe pipe.c
┌──(kali㉿kali)-[~/labQuestion091222]
└─$ ./pipe
Parent received: Hello, parent!
┌──(kali㉿kali)-[~/labQuestion091222]
└─$