

EXPERIMENT NO 4

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DIV: A

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Program

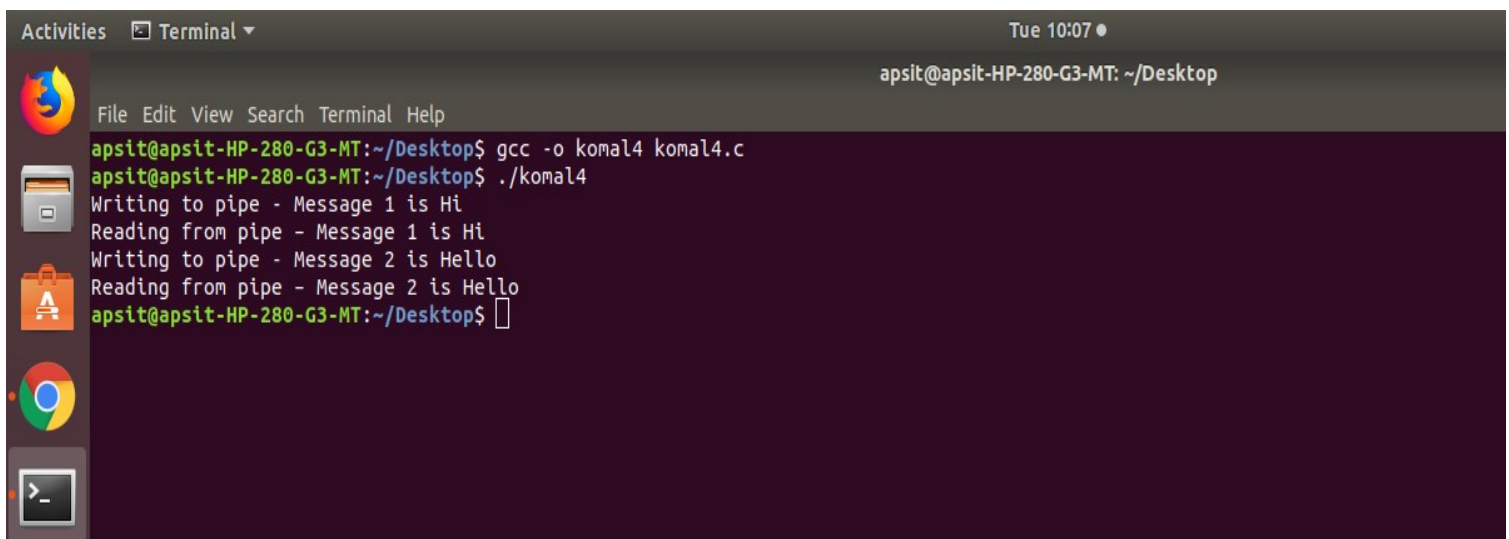
```
#include<stdio.h>
#include<unistd.h>

int main() {
    int pipefds[2];
    int returnstatus;
    char writemessages[2][20]={"Hi", "Hello"};
    char readmessage[20];
    returnstatus = pipe(pipefds);

    if(returnstatus == -1) {
        printf("Unable to create pipe\n");
        return 1;
    }

    printf("Writing to pipe - Message 1 is %s\n", writemessages[0]);
    write(pipefds[1], writemessages[0], sizeof(writemessages[0]));
    read(pipefds[0], readmessage, sizeof(readmessage));
    printf("Reading from pipe - Message 1 is %s\n", readmessage);
    printf("Writing to pipe - Message 2 is %s\n", writemessages[1]);
    write(pipefds[1], writemessages[1], sizeof(writemessages[0]));
    read(pipefds[0], readmessage, sizeof(readmessage));
    printf("Reading from pipe - Message 2 is %s\n", readmessage);
    return 0;
}
```

OUTPUT:



The screenshot shows a terminal window titled "Terminal" with a dark background. The user is logged in as "apsit" on a machine named "apsit-HP-280-G3-MT". The current directory is "~/Desktop". The terminal shows the compilation of a C program named "komal4.c" into an executable named "komal4" using the gcc compiler. The program is then executed, and the output is displayed as follows:

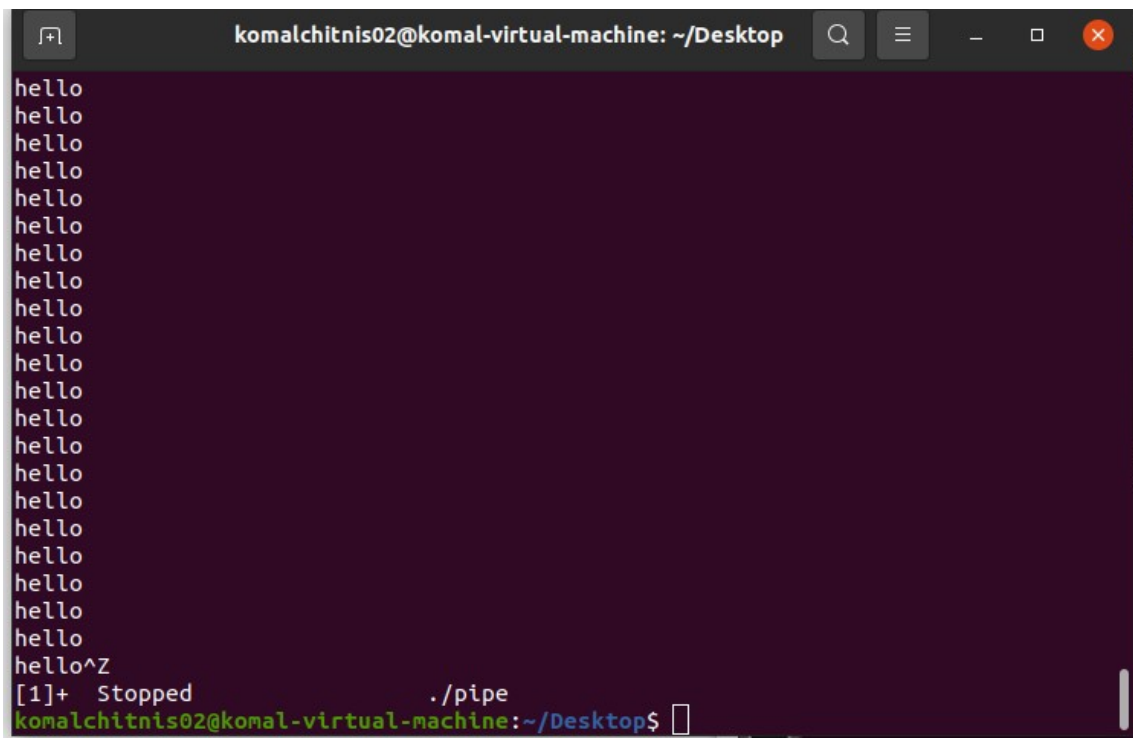
```
apsit@apsit-HP-280-G3-MT:~/Desktop$ gcc -o komal4 komal4.c
apsit@apsit-HP-280-G3-MT:~/Desktop$ ./komal4
Writing to pipe - Message 1 is Hi
Reading from pipe - Message 1 is Hi
Writing to pipe - Message 2 is Hello
Reading from pipe - Message 2 is Hello
apsit@apsit-HP-280-G3-MT:~/Desktop$
```

PROGRAM:

```
#include<stdio.h>
#include<signal.h>

int main()
{
    signal(SIGINT,SIG_IGN);
    while(1)
    {
        printf("hello\n");
    }
    return 0;
}
```

OUTPUT:

A terminal window titled 'komalchitnis02@komal-virtual-machine: ~/Desktop' with standard window controls. The terminal displays the output of the program, which is a continuous stream of 'hello' messages. The output is as follows:

```
hello
hello
hello
hello
hello
hello
hello
hello
hello
hello
hello
hello
hello
hello
hello
hello
hello
hello
hello
hello
hello
hello^Z
[1]+  Stopped                  ./pipe
komalchitnis02@komal-virtual-machine:~/Desktop$
```