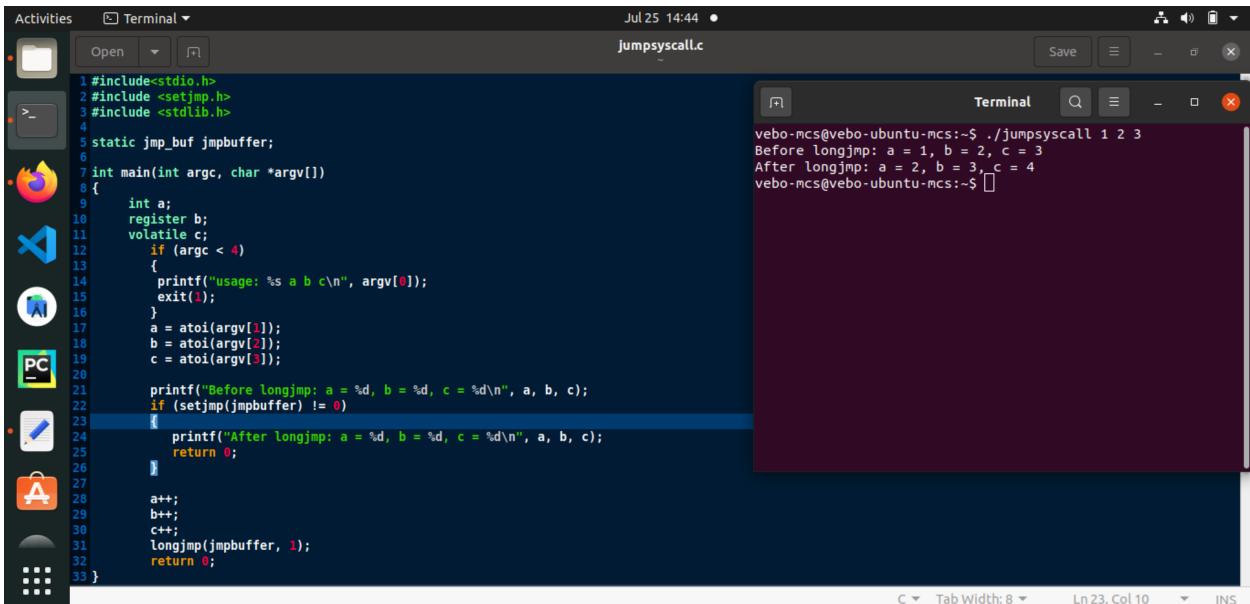


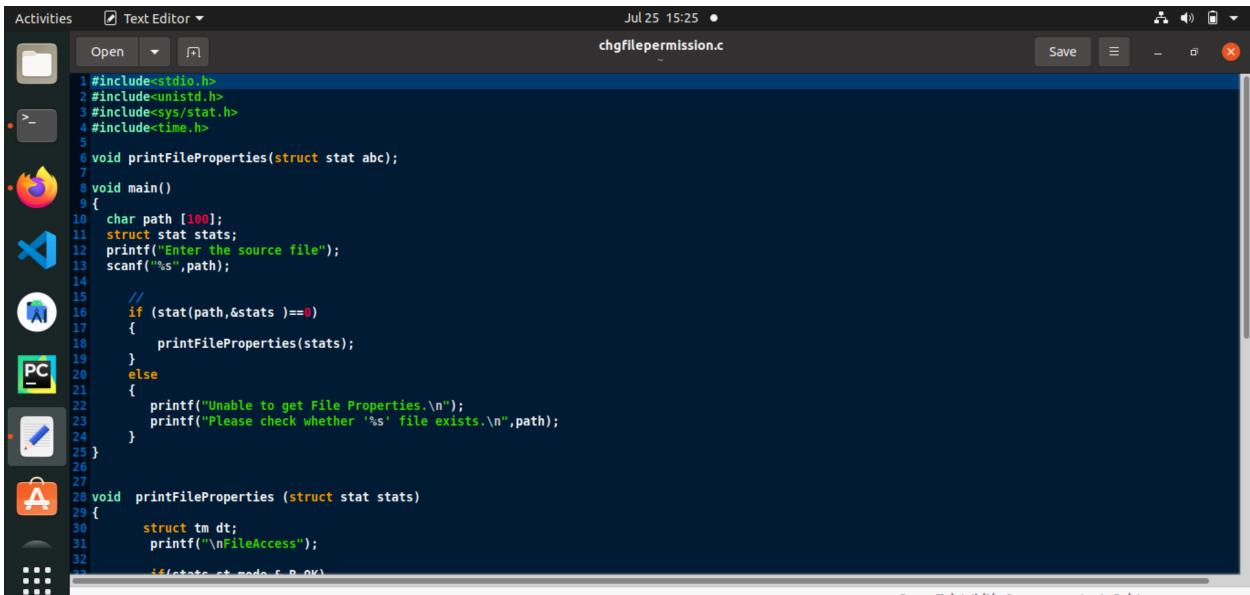
sig_handler() This function is registered to the kernel by passing it as the second argument of the system call 'signal' in the main() function.

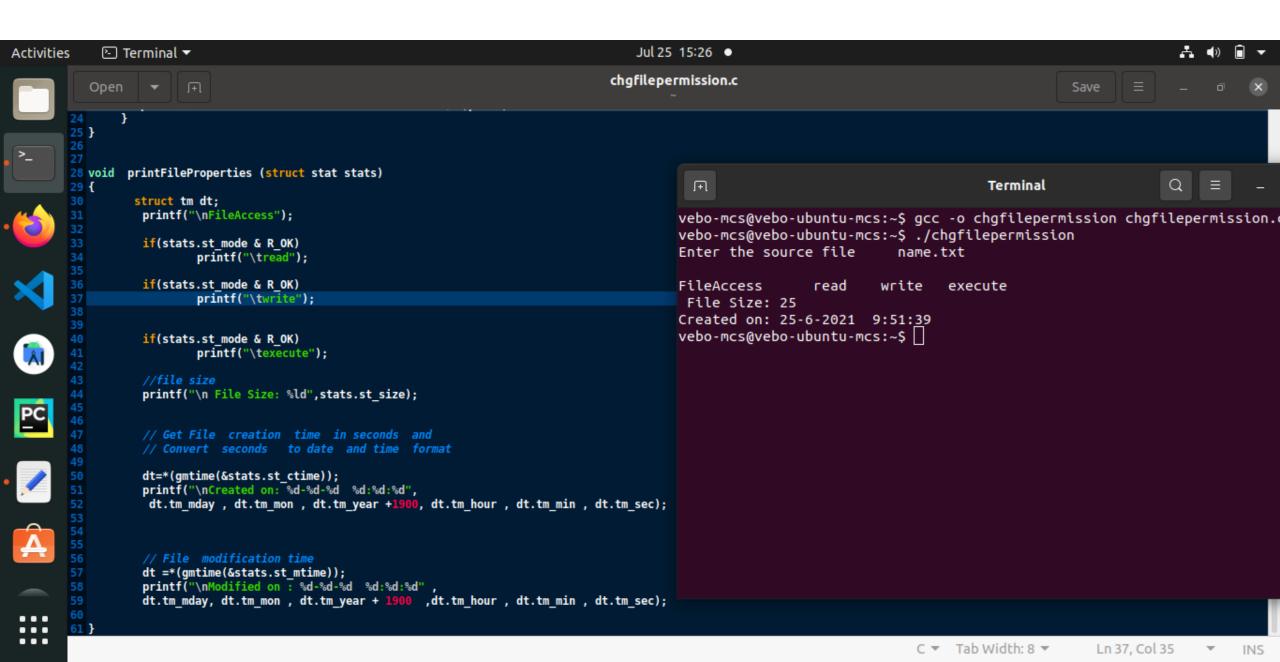
sleep(1) This function has been used in the while loop so that while loop executes after some time.



Using atoi() we convert these argument into integers and set these values to variables a,b,c.after that we print the value of a,b and c we get a=1,b=2 and c=3.

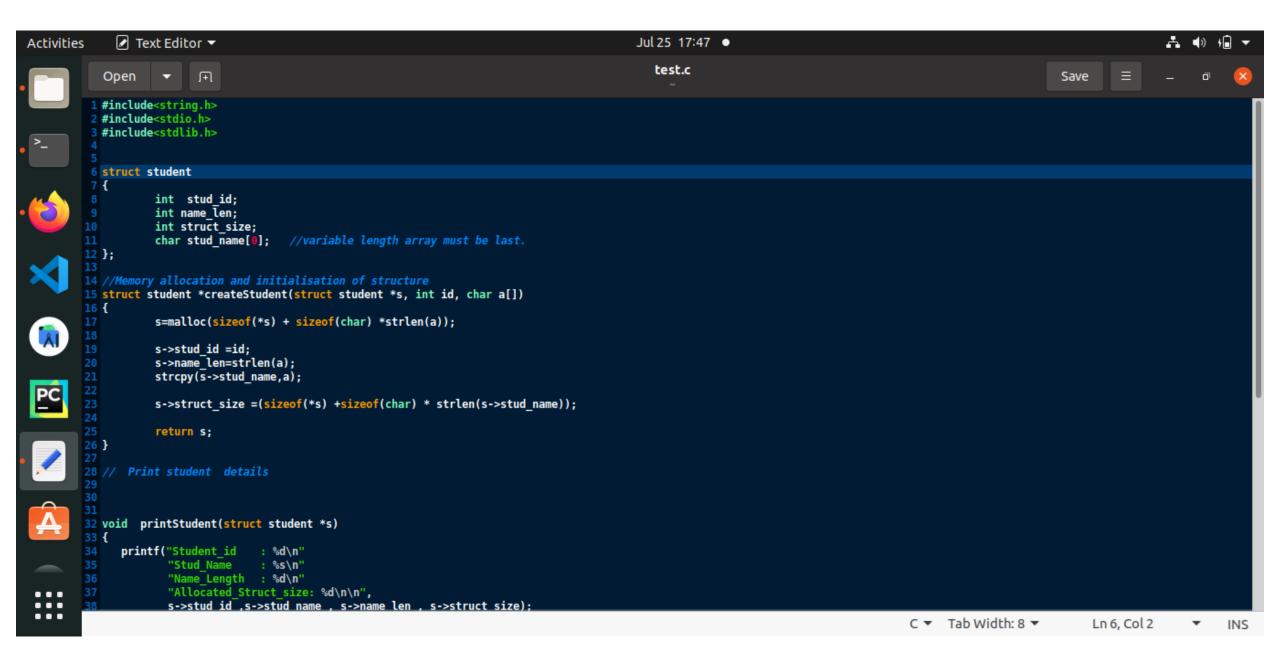
initially setjmp() false hence control comes out from if condition and increase the value of variables a,b and c. longjmp() transfers control to the point set by setjmp()and it prints the value of a,b and c. hence a=2,b=3 and c=4 prints.

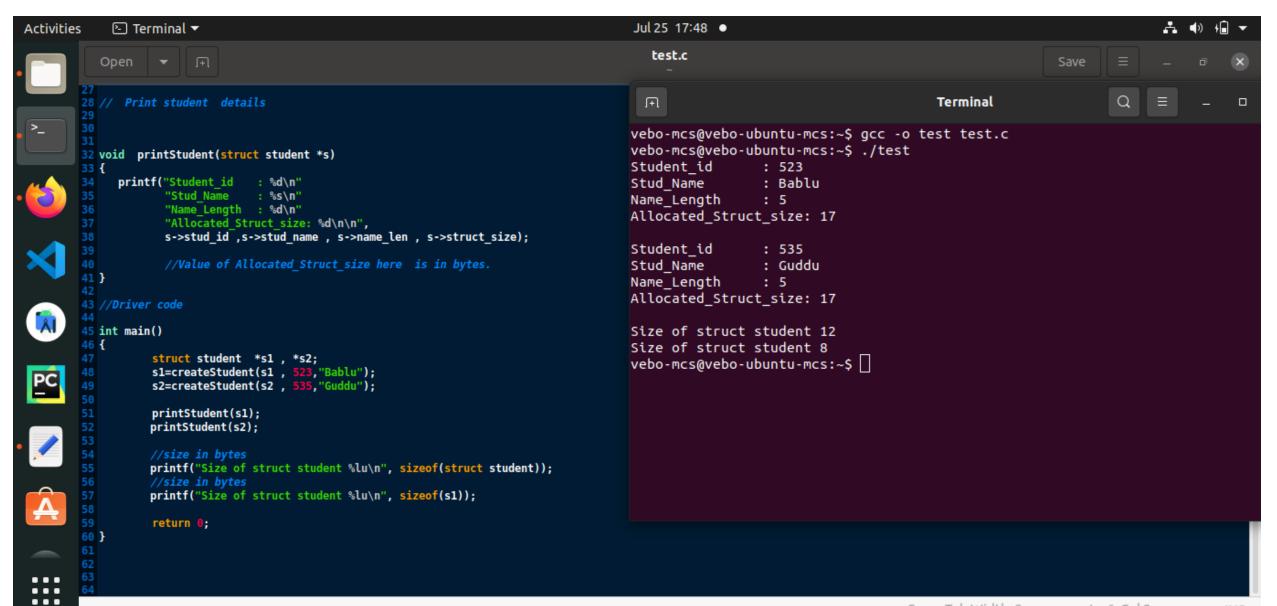




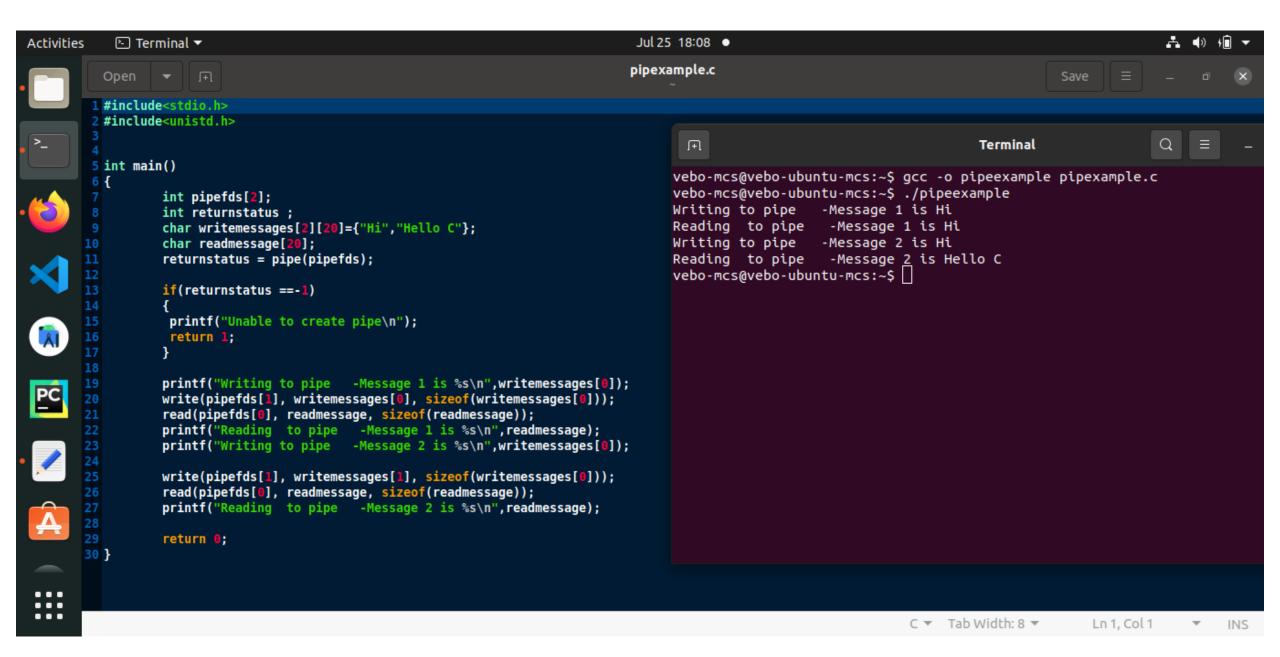
stat() function is used to list properties of a file identified by path void printFileProperties(struct stat stats) function is used to print file properties

i.e File access,File size,file creation date and time,File modification date time

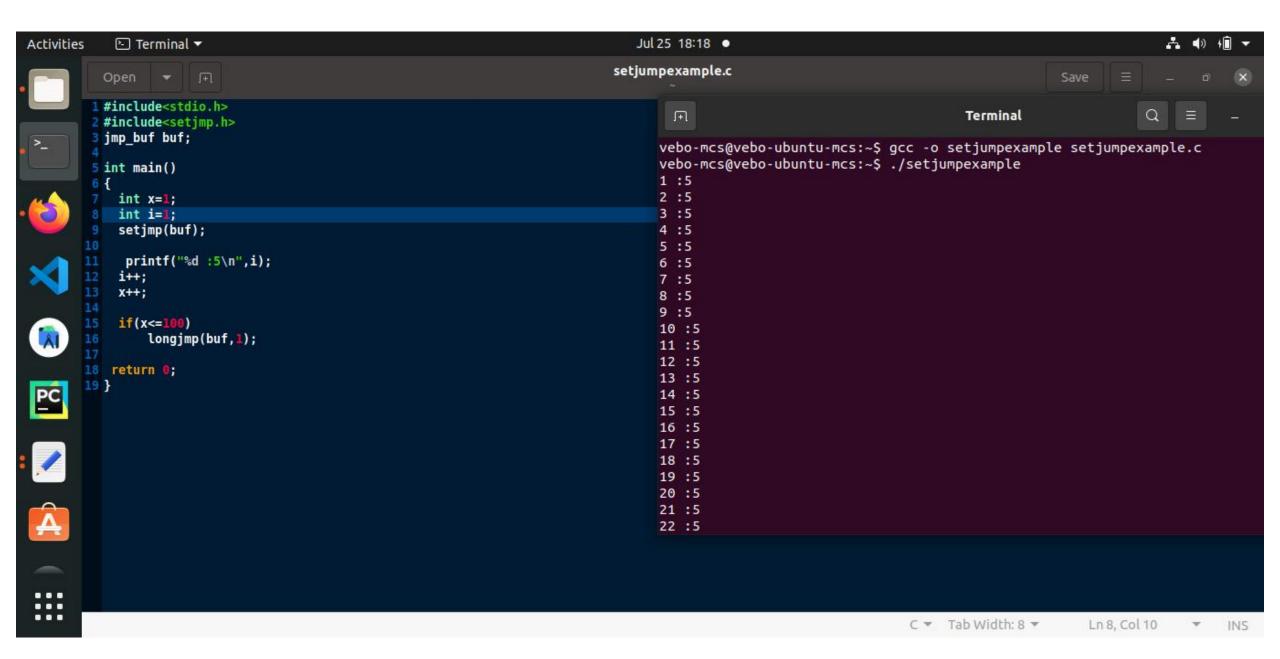


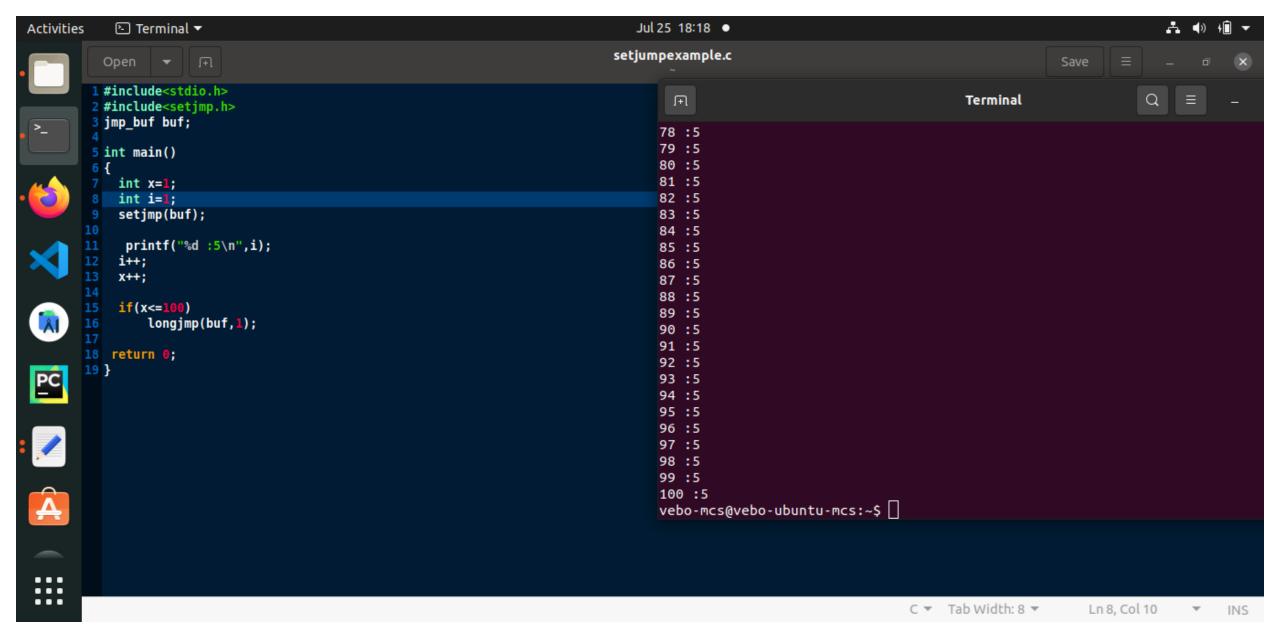


Structure – Structure is a user defined datatype which can hold different types of elements. In the above program we create a studentstructure which holds student data. We create two variables of structre s1 and s2. Inside main mehod we create a method createstudent() and pass the student values. Now control comes in createstudent(). Inside this function we allocate the memory for each structure variable using malloc(). Createstudent() returns student details and using printstudent() we display the student details



pipe(pipefds): This system call would create a pipe for one-way communication i.e., it creates two descriptors, first one is connected to read from the pipe and other one is connected to write into the pipe.

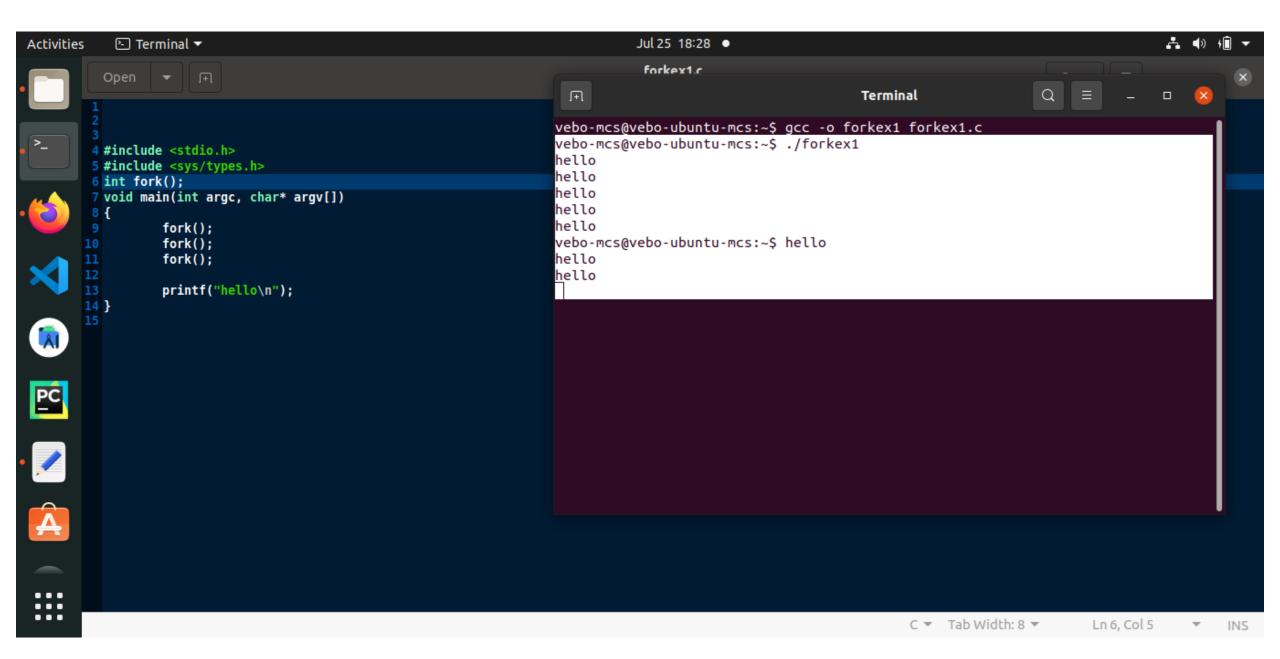




setjmp(buf) This system call is used to set the jump position using buf.

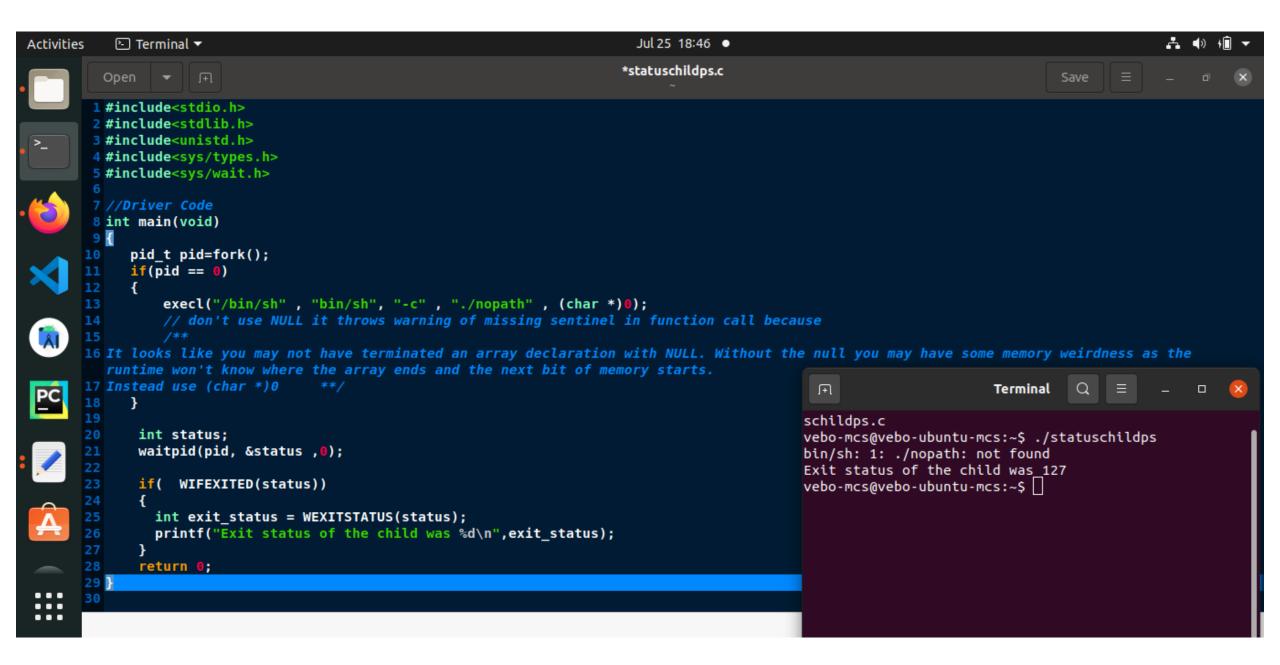
longjmp() This system call is used to Jump to the point located by setjmp.

The longjump() transfers control the pointe which is pointed by setjump().this process will be terminate after the terminating loop.



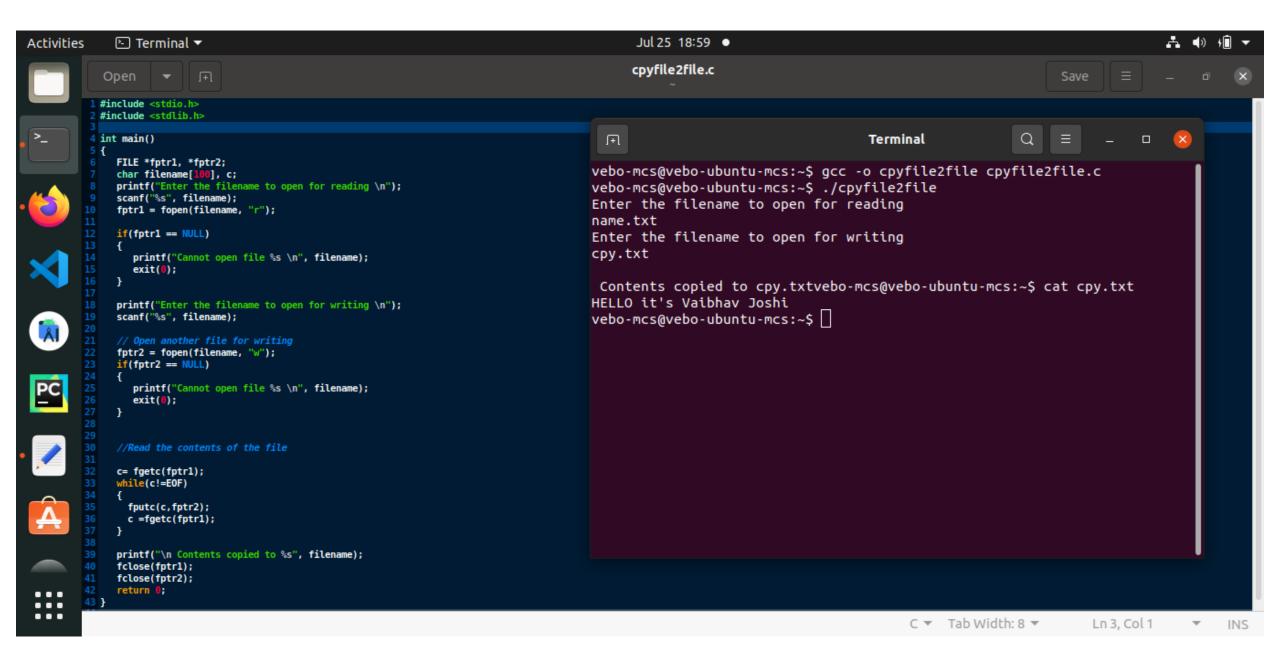
The number of times 'hello' is printed is equal to number of process created. Total Number of Processes = 2^fork calls.

So here fork calls = 1, 2^1 = 2. Hence Hello World print 2 times.



execl() system function takes the path of the executable binary file fork() system call is used to create a new process which becomes child of the caller process.

WIFEXITED(status): returns true if the child terminated normally. waitpid() system call: It suspends execution of the calling process until a child specified by pid argument has changed state.



- fopen(filename, "r") this function is used to open file for reading. fopen(filename, "w") this function is used to open file for writing. fgetc(fptr1) read contents from file. fputc(c, fptr2) write contents to the file.
- fclose(fptr1) this function is used for close a file.