**Assignment Number 03**

**Name:** Mihir Unmesh Patil

**Roll NO**: TYCOC213

**Batch:** C/C-3

**CODE:**

#include <stdio.h>

#include <stdlib.h>

#include <unistd.h>

void child\_process(int write\_fd) {

char message[] = "Hello from Child Process!";

write(write\_fd, message, sizeof(message));

close(write\_fd);

exit(0);

}

void parent\_process() {

int pipe\_fd[2];

char buffer[100];

if (pipe(pipe\_fd) == -1) {

perror("Pipe failed");

exit(1);

}

pid\_t pid = fork();

if (pid > 0) { // Parent process

close(pipe\_fd[1]); // Close unused write end

read(pipe\_fd[0], buffer, sizeof(buffer));

printf("Parent received: %s\n", buffer);

close(pipe\_fd[0]);

} else if (pid == 0) { // Child process

close(pipe\_fd[0]); // Close unused read end

child\_process(pipe\_fd[1]);

} else {

perror("Fork failed");

exit(1);

}

}

int main() {

parent\_process();

return 0;

}  
  
**Output:**

