**Name: Muhammad Saad Tariq**

**Cms: 224921**

**Class: BSCS-7A**

**Course: Operating Systems (CS-330)**

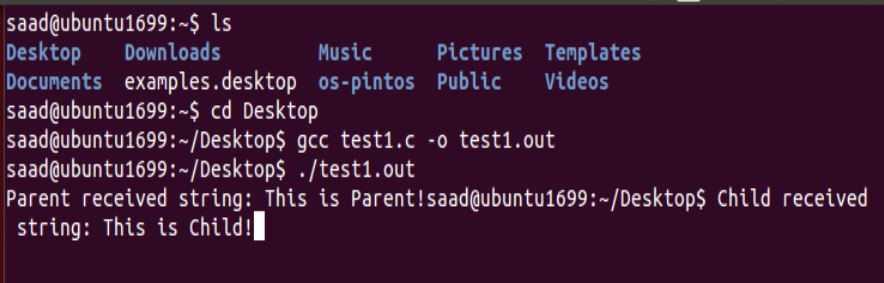
**Lab 3**

**Code:**

#include <stdio.h>  
#include <unistd.h>  
#include <sys/types.h>  
#include <sched.h>  
#include <sys/time.h>  
#include <stdlib.h>  
#include <string.h>  
   
int main(void){  
int fd1[2];  
int fd2[2];  
int no\_of\_bytes;  
pid\_t childpid;  
char string1[] = "This is Child!";  
char string2[] = "This is Parent!";  
char readbuffer[100];  
pipe(fd1);  
pipe(fd2);  
   
if((childpid = fork()) == -1){  
            perror("Error");  
            exit(1);  
}  
else if(childpid > 0){  
            /\* Parent writes below \*/        
            close(fd1[0]);  
            write(fd1[1], string1,(strlen(string1)+1) );  
            /\* Parent reads below \*/  
            close(fd2[1]);  
            no\_of\_bytes = read(fd2[0], readbuffer, sizeof(readbuffer));  
            printf("Parent received string: %s", readbuffer);  
}

else if(childpid == 0){  
            /\* Child reads below \*/  
            close(fd1[1]);  
            no\_of\_bytes = read(fd1[0], readbuffer, sizeof(readbuffer));  
            printf("Child received string: %s", readbuffer);  
             
            /\* Child writes below \*/  
            close(fd2[0]);  
            write(fd2[1], string2 , (strlen(string2)+1) );  
            exit(0);  
}  
else  
            return 0;  
return 0;  
}

**Output:**

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