```
##Aim:
###To Write a C/C++ program to illustrate the race condition.
##Algorithm:
##Theory:
<blook<br/>quote>
A race condition occurs when multiple processes are trying to do
something with
shared data and the final outcome depends on the order in which the
processes run. The fork
function is a lively breeding ground for race conditions, if any of
the logic after the fork either
explicitly or implicitly depends on whether the parent or child runs
first after the fork. In general, we
cannot predict which process runs first. Even if we knew which
process would run first, what happens
after that process starts running depends on the system load and the
kernel's scheduling algorithm.
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##Code:
<code>#include&lt;stdlib.h&gt;
#include<stdio.h&gt;
#include<unistd.h&qt;
static void charatatime(char *);
int main()
{
        int pid;
        if((pid=fork())<0)
                printf("fork error\n");
        else if(pid==0)
                charatatime("output from child\n");
        else
                charatatime("output from parent\n");
        exit(0);
}
static void charatatime(char *str)
        char *ptr;
        int c;
        setbuf(stdout, NULL);
        for(ptr=str;(c=*ptr++)!=0;)
                putc(c,stdout);
</code>
##0utput:
*Commands for execution:-*
```