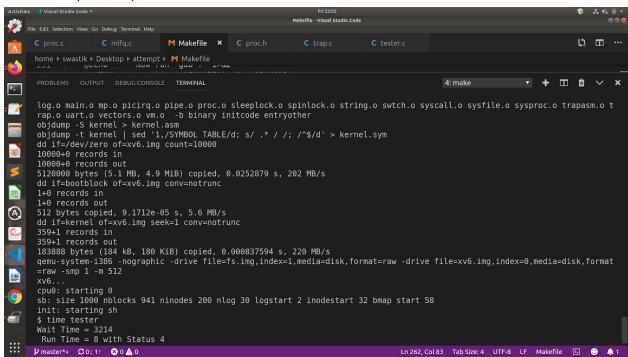
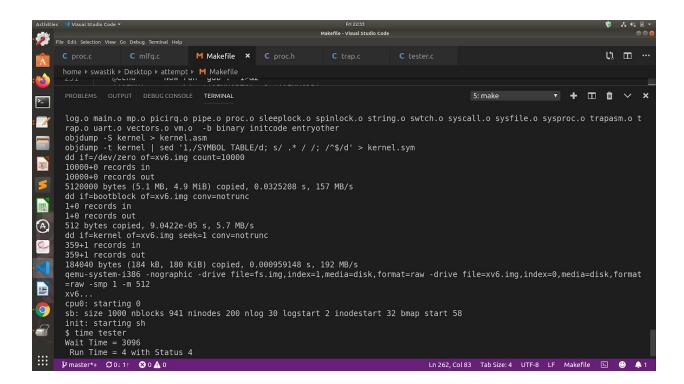
ASSIGNMENT-5

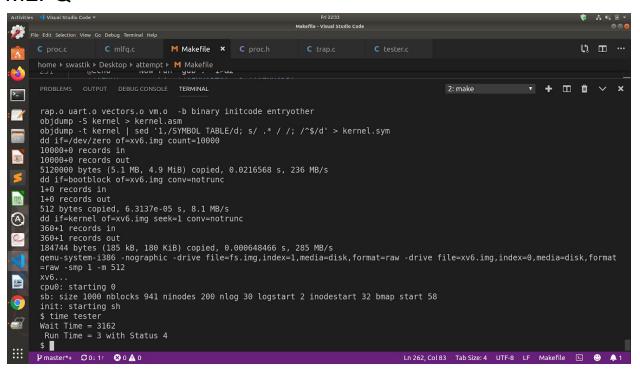
DEFAULT(ROBIN)



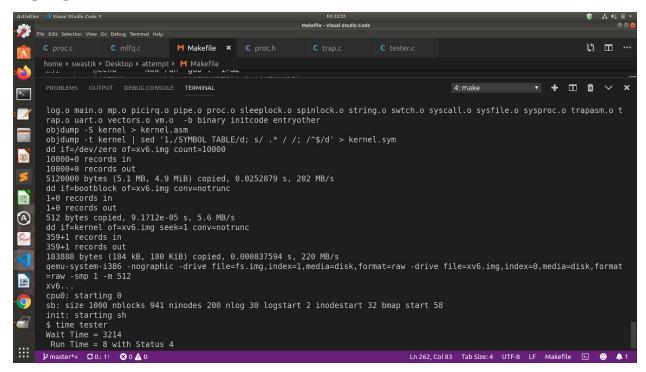
PRIORITY



MLFQ



FCFS



Here Priority has better performance than MLFQ Which will not always be true but as the no of child process or no. of process increases MLFQ will perform better than PBS.

And RR has almost equal performance compared to FCFS Though the gap will increase as same above.

FXAMPLE

MLFQ

```
tester.c - Visual Studio Code
File Edit Selection View Go Debug Terminal Help
                                                                                        C tester.c ×
            #include "types.h"
#include "stat.h"
             #include "stat."
#include "user.h"
#include "fcntl.h"
              int main(int argc, char *argv[]) {
  int id, n = 11, limit = 1e8;
稟
                  for (int k = 0; k < n; k++) {
(A)
       PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
                                                                                                                              ▼ + □ 🛍 ^ ×
                                                                                                          2: bash
       qemu-system-i386 -nographic -drive file=fs.img,index=1,media=disk,format=raw -drive file=xv6.img,index=0,media=disk,format
       =raw -smp 1 -m 512
       cpu0: starting 0
sb: size 1000 nblocks 941 ninodes 200 nlog 30 logstart 2 inodestart 32 bmap start 58
      init: starting sh
$ time tester
       $ QEMU: Terminated
       swastik@swastikpc:~/Desktop/attempt$
Ln 9, Col 19 Spaces: 4 UTF-8 LF C 🖸 Linux 🙂 🜲 1
```

PBS

```
tester.c - Visual Studio Code
                                                                                                                                                                                                                                                                                                                                       C tester.c ×
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ហ្ Ⅲ …
                        home ▶ swastik ▶ Desktop ▶ attempt ▶ C tester.c ▶ 🕅 main(int, char * [])
                                                 #include "user.h"
                                                  #include "fcntl.h"
                                                    int main(int argc, char *argv[]) {
  int id, n = 11, limit = 1e8;
(A)
                          PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ▼ + □ 🛍 ^ ×
                                                                                                                                                                                                                                                                                                                                                                                                        5: bash
                          qemu-system-i386 - nographic - drive \ file=fs.img, index=1, media=disk, format=raw - drive \ file=xv6.img, index=0, media=disk, format=raw - drive \ file=xv6.img, format=raw 
                          =raw -smp 1 -m 512
                          cpu0: starting 0
 sb: size 1000 nblocks 941 ninodes 200 nlog 30 logstart 2 inodestart 32 bmap start 58
                         init: starting sh
$ time tester
                         $ QEMU: Terminated
swastik@swastikpc:~/Desktop/attempt$
Ln 9, Col 19 Spaces: 4 UTF-8 LF C 🕟 Linux 🙂 🔔 1
```

RR

```
tester.c - Visual Studio Code
File Edit Selection View Go Debug Terminal Help
                                                                                                                                                                                                                                                                                                                                                                      C tester.c ×
                                                 #include "types.h"
#include "stat.h"
                                                     #include "stat.n"
#include "user.h"
#include "fcntl.h"
                                                       int main(int argc, char *argv[]) {
  int id, n = 11, limit = 1e8;
稟
                                                                          for (int k = 0; k < n; k++) {
(A)
                           PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
                                                                                                                                                                                                                                                                                                                                                                                                                                              3: make
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ▼ + □ a ∧ ×
                          183688 bytes (184 kB, 179 KiB) copied, 0.000620081 s, 296 MB/s qemu-system-i386 -nographic -drive file=fs.img,index=1,media=disk,format=raw -drive file=xv6.img,index=0,media=disk,format=raw -drive
                           =raw -smp 1 -m 512
sb: size 1000 nblocks 941 ninodes 200 nlog 30 logstart 2 inodestart 32 bmap start 58 init: starting sh
                          $ time tester
Wait Time = 3348
Run Time = 4 with Status 4
                                                                                                                                                                                                                                                                                                                                                                                                          Ln 9, Col 19 Spaces: 4 UTF-8 LF C 🖸 Linux 🙂 🜲 1
```

FCFS

