```
Pid = fork()
, f ( pid == 0) { child}
    Pid = f.ik(); / ex(LYP(-);
 else { parent
 pil=fok();
  if (pid==0) { (hil)
passinfo from one process to another
                                cat scores I grep uva
Hinclude <stdioh >
                                  int main (int aval char # avav
Hinclude Conistd. 17
Hindule < fentl. h>
Hindule < sys/+ypenh>
                                        int pipefo[2];
Hindlede CSYS/StJ.h7
                                        int pid;
                                        char + (at_avgs[]= { "cat", "scores", NULL }
pipe (pipefo);
                                        Cher * arep_args[] = { "grep", "va", MLL3,
                                          pipelpipeto); / if (pipelpipeto)!=0)
                                           pil=fork()
                                           if (pid == 0) (10td met)
{ dup2 (pipefd(0), 0);
                                               close (pipefo[1]); where this point
                                                execupl"gree" gree-was)
                                            { dup? ( pipefo[1], 1);
```

```
close (pipef)[0]),
                                              execup ("cat", cat_args);
                                           3
I/O redirection
 Same headerfiles
 grep ura <slores > out
 int infile, outfile,
 chor * grep_ args[] = { "grep", "ova", NULL};
{2? inFile=open("score", O_RDONLY);
 OUFFile = Open ("Jut", O_WRONLY);
DupZ (inFile, O);
 du, 2 (outfile, 1),
 close (in File);
 close (out File);
 execupl"ym", greparys);
cat (vedirect. C | WC> out
int main (intage, charttage)
    int in File out File;
```

```
Char * cat-args[] = { "cat", NULL);
  Char *WCargs[]= \"wc", NULL},
Int Status (,
pio_t first, second;
     int pipefol2],
   in File = open ("redirect ", O_RDONLY);
    OutFile=open("out" O_WRONLY),
   Pipe (pipefd);
 first = fork();
if (first ==0)
    { dup? (in File, 0)',
         dup? (pipefd[1] 1);
         close (pipefolo))
                                       a didn't include check evrors
          execup ("cat", cat_avgs),
                                            need for Project
       else if (first > 0)
      Second = fork();
           if (secon) == 0)
            { Jup 2 (pipe foll 0], 0);
                Jupz(outFile, 1),
                close(pipefo[1]);
               execup("wc",wc_avgs);
        also if (second 70)
         { lose (in File);
```

(lose(out File);	
close (pipe fd[0]),	
close (pipefo[1]);	
for (1=0,122;1++)	
wait ( & status)	
print ("All Jone h");	
3	
ζ	
7	
)	
proless control block PLPs active as uspanded	
(1) State transition lifecycle for process // ready, running, block signal	
Un't wantible CPC	1./TO
(V Unhing)	moltieve queue offam
Vesource (Veady-a)	Schedulas Schedulas
request Check for Jerdoch	dispatche
derdlah	quantum = timstice
(block_a)	++inc
menoy	1s, Vios