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// Yellow high-lite below marks the comment marks &/or lines that are to be removed
/* Author(s): Please put your student name(s) & section here.
 *
 * This is a lab9.c the csc60mshell
 * This program serves as a skeleton for doing lab 9, 10, and 11.
 * Student is required to use this program to build a mini shell
 * using the specification as documented in directions.
 * Date: Spring 2018
 */

#include <stdlib.h>
#include <stdio.h>
#include <string.h>
#include <sys/types.h>
#include <sys/wait.h>
#include <unistd.h>
#include <fcntl.h>
#include <errno.h>

#define MAXLINE 80
#define MAXARGS 20
#define MAX_PATH_LENGTH 50
#define TRUE 1

/* function prototypes */
int parseline(char *cmdline, char **argv);

//The two functions below will be needed in lab10.
//Leave them here to be used later.
/* void process_input(int argc, char **argv); */
/* void handle_redir(int count, char *argv[]); */

/* ----------------------------------------------------------------- */
/*                  The main program starts here                     */
/* ----------------------------------------------------------------- */
int main(void)
{
   char cmdline[MAXLINE];
   char *argv[MAXARGS];
   int argc;
   int status;
   pid_t pid;

   /* Loop forever to wait and process commands */
   while (TRUE) {
        /* Print your shell name: csc60mshell (m for mini shell) */
        printf("FillInThisSpace> ");
        /* Read the command line */
        fgets(cmdline, MAXLINE, stdin);

        /* Call parseline to build argc/argv */


        /* If user hits enter key without a command, continue to loop */
        /* again at the beginning */
        /*  Hint: if argc is zero, no command declared */
        /*  Hint: look up for the keyword "continue" in C */

        /* Handle build-in command: exit, pwd, or cd  */
        /* Put the rest of your code here */

//......................IGNORE.......................
//      /* Else, fork off a process */
//   else {
//          pid = fork();
//     switch(pid)
//          {
//          case -1:
//                  perror("Shell Program fork error");
//                  exit(EXIT_FAILURE);
//          case 0:
//                  /* I am child process. I will execute the command, */
//                  /* and call: execvp */
//                  process_input(argc, argv);
//                  break;
//          default:
//                  /* I am parent process */
//                  if (wait(&status) == -1)
//                    perror("Parent Process error");
//                  else
//                    printf("Child returned status: %d\n",status);
//                  break;
//          }       /* end of the switch */
//...end of the IGNORE above........................
       }            /* end of the if-else-if */
    }               /* end of the while */
}                   /* end of main */

/* -------------------------------------------------------------- */
/*              parseline                                         */
/* -------------------------------------------------------------- */
/* parse input line into argc/argv format */

int parseline(char *cmdline, char **argv)
{
   int count = 0;
   char *separator = " \n\t"; /* Includes space, Enter, Tab */

   /* strtok searches for the characters listed in separator */
   argv[count] = strtok(cmdline, separator);

   while ((argv[count] != NULL) && (count+1 < MAXARGS))
          argv[++count] = strtok((char *) 0, separator);

   return count;
}
/* ---------------------------------------------------------------- */
/*               process_input                                      */
/* ---------------------------------------------------------------- */
/*void process_input(int argc, char **argv) {                      */

   /* Step 1: Call handle_redir to deal with operators:      */
   /* < , or  >, or both                                     */


   /* Step 2: perform system call execvp to execute command        */
   /* Hint: Please be sure to review execvp.c sample program       */
   The exec call goes here
   /* if (........ == -1) {                                  */
   /*    fprintf(stderr, "Error on the exec call\n");        */
   /*    _exit(EXIT_FAILURE);                                */
   /* }                                                      */

// }
/* ---------------------------------------------------------------- */
//void handle_redir(int count, char *argv[])

// code goes here
/* ---------------------------------------------------------------- */
```