```
#include <stdio.h>
#include <unistd.h>
#include <stdlib.h>
#include <sys/wait.h>
#include <string.h>
// man -s 3 getenv
int main(int argc, char *argv[])
{
  int a, b, c, d;
  pid_t pid;
  int x;
  int i;
  if(argc < 5){
    printf("You must have 4 arguments to the progrm\n");
    exit(242);
  }
  a = atoi(argv[1]);
  b = atoi(argv[2]);
  c = atoi(argv[3]);
  d = atoi(argv[4]);
  if((pid = fork()) < 0)
      printf("Couldn't fork a process");
      exit(2);
  if(pid == 0){ // child code}
    printf("The forking process %d\n", a+b);
    printf("I am going to execve another process also: \n");
    char *args[] = {"diffproc", "10", "5", 0};
    char *environ[] =
      {
        "HOME=/Users/Abukmail",
        "PATH=/Users/Abukamil:/bin:/usr/bin:.",
        "USER=abukmail",
        "LOGNAME=abukmail",
        0
      };
    execve(args[0], &args[0], environ);
  }else{ // parent code
    for(i = 0; i < 100000; i++);
    printf("%d\n", c+d);
  printf("The process id is: %d and my parent is: %d\n", getpid(), getppid());
}
/* the env variables getting and setting
  char path[200];
```

```
printf("%s\n", getenv("SHELL"));
printf("%s\n", getenv("PATH"));
strcpy(path, "/opt:");
setenv("PATH", strcat(path, getenv("PATH")), 1);
printf("%s\n", getenv("PATH"));
*/
```