Spring 2022 – 4320/6320 Section 002/006 Operating Systems

**Homework 1**: Due 1/19/2022 at midnight  
Your program must compile with gcc and execute on snowball.cs.gsu.edu!

1. Briefly describe the semantics of the following Unix system calls:
   1. fork();
2. Creates process within the process. Its duplication the original process and new process will be the child while the old process will become the parent.

b. exit();

Is used to instanly end the calling process   
c. getpid();

Returns the process ID of the calling process

d. getppid();

returns the process ID of the parent of the calling process

e. wait();

Called after the fork to make sure the children process before it ends   
f. execl();

Takes the path of the executable binary file as the first and second argument

1. Write a C program that uses each of the above system calls at least once. Submit your .c files and screenshots of the corresponding output. Make sure that your program compiles and executes without error.