Q) Write a c program to create the process heirarchy p0->p1->p2->p3->p4->p5.Where p0 is the original process

#include <stdio.h>

#include <unistd.h>

#include <sys/types.h>

#include <sys/wait.h>

void create\_process\_hierarchy()

{

pid\_t pid;

for (int i = 1; i <= 5; i++)

{

pid = fork();

if (pid < 0)

{

perror("Fork failed");

return;

}

else if (pid == 0)

{

// Child process

printf("Process P%d created by P%d with PID: %d\n", i, i - 1, getpid());

}

else

{

// Parent process waits for the child to finish

wait(NULL);

break;

}

}

}

int main()

{

printf("Process P0 with PID: %d\n", getpid());

create\_process\_hierarchy();

return 0;

}