Assignment 2

Study the concept of Signals and write a program for Context Switching between two processes using alarm signals.

```
#include <stdlib.h>
#include <unistd.h>
volatile int switch_flag = 0;
void alarm_handler(int signum) {
   switch_flag = 1;
void process_A() {
   while (1) {
       printf("Process A is running\n");
       sleep(1);
       if (switch_flag) {
            switch_flag = 0;
            kill(getpid(), SIGSTOP); // Stop this process
void process_B() {
   while (1) {
       printf("Process B is running\n");
        sleep(1);
       if (switch_flag) {
            switch_flag = 0;
            kill(getpid(), SIGSTOP); // Stop this process
int main() {
   signal(SIGALRM, alarm_handler);
   // Create two child processes
   pid_t pid_A, pid_B;
   pid_A = fork();
```

Screenshot

