OS Activity 5

Member

Chayanin Kongsareekul	6532035021
Theepob Laopornpitchayanuwat	6532100021
Poopha Suwananek	6532141821

1.)

```
1 #include <stdio.h>
   #include <pthread.h>
    #include <unistd.h>
    void *say hello(void *data){
        char *str;
        str = (char *)data;
        while (1)
            printf("%s\n", str);
            sleep(1);
11
12
    void main(int argc, char *argv[]){
13
        pthread_t t1, t2;
15
        if(argc!=3){
            printf("usage : labthread1 arg1 arg2\n");
            return ;
19
        char *av[10];
21
        for(int i=1;i<argc;i++){</pre>
22
            av[i-1]=argv[i];
23
        pthread_create(&t1, NULL, say_hello, av[0]);
        pthread_create(&t2, NULL, say_hello, av[1]);
        pthread_join(t1, NULL);
        pthread_join(t2, NULL);
```

```
theepob@BBIdea3:/mnt/c/Users/BBB/Desktop/OS_activity/Act5$ ./act5_1 cp chula cp chula
```

```
1 #include <stdio.h>
       2 #include <pthread.h>
       3 #include <unistd.h>
       4 void *say_hello(void *data)
              char *str;
              str = (char *)data;
              printf("This is thread %s\n", str);
      10 void main()
      11
              pthread_t t[10];
              char *str[] = {"1","2","3","4","5","6","7","8","9","10"};
              for(int i=0;i<10;i++){
                 pthread_create(&t[i], NULL, *say_hello,str[i]);
              for(int i=0;i<10;i++){
                 pthread join(t[i], NULL);
theepob@BBIdea3:/mnt/c/Users/BBB/Desktop/OS_activity/Act5$ ./act5_2
This is thread 1
This is thread 2
This is thread 4
This is thread 3
This is thread 7
This is thread 6
This is thread 5
This is thread 8
This is thread 9
This is thread 10
theepob@BBIdea3:/mnt/c/Users/BBB/Desktop/OS_activity/Act5$ ./act5_2
This is thread 1
This is thread 2
This is thread 6
This is thread 8
This is thread 4
This is thread 5
This is thread 7
This is thread 3
This is thread 10
This is thread 9
theepob@BBIdea3:/mnt/c/Users/BBB/Desktop/OS_activity/Act5$
```

```
1 #include <stdio.h>
        #include <pthread.h>
      4 void *say_hello(void *data){
            char *str;
            str = (char *)data;
            printf("%s\n", str);
      9 void main()
            pthread_t t1, t2, t3, t4;
            pthread_create(&t1, NULL, say_hello, "First thread from parent process");
            pthread_create(&t2, NULL, say_hello, "Second thread from parent process");
            pid_t pid = fork();
            if (pid != 0) {
               return ;
            else {
               pthread_create(&t3, NULL, say_hello, "First thread from child process");
               pthread_create(&t4, NULL, say_hello, "Second thread from child process");
            pthread_join(t1, NULL);
            pthread_join(t2, NULL);
            pthread_join(t3, NULL);
            pthread_join(t4, NULL);
theepob@BBIdea3:/mnt/c/Users/BBB/Desktop/OS_activity/Act5$ ./act5_3
Second thread from parent process
First thread from parent process
Second thread from child process
First thread from child process
theepob@BBIdea3:/mnt/c/Users/BBB/Desktop/OS_activity/Act5$ ./act5_3
Second thread from parent process
First thread from parent process
First thread from child process
Second thread from child process
theepob@BBIdea3:/mnt/c/Users/BBB/Desktop/OS_activity/Act5$ ./act5_3
First thread from parent process
Second thread from parent process
Second thread from child process
First thread from child process
theepob@BBIdea3:/mnt/c/Users/BBB/Desktop/OS_activity/Act5$
```