

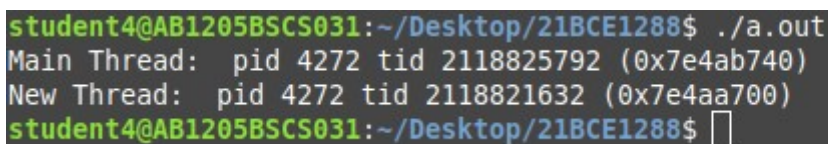
Name: Subhadeep Chell
Reg.No: 21BCE1288

Lab-Excercise : 4 (Thread Manipulation)

Q1. Ans. The required c program is given as :

```
#include<stdio.h>
#include<stdlib.h>
#include<unistd.h>
#include<pthread.h>
pthread_t ntid;
void printids(const char *s){
    pid_t pid;
    pthread_t tid;
    pid = getpid();
    tid = pthread_self();
    printf("%s pid %u tid %u (0x%x)\n",s,pid,tid,tid);
}
void *thr_fn(void *arg){
    printids("New Thread: ");
    return ((void *)0);
}
void main(){
    int err;
    err = pthread_create(&ntid,NULL,thr_fn,NULL);
    if(err !=0){
        printf("Error");
    }
    printids("Main Thread: ");
    sleep(1);
    exit(0);
}
```

Output:



```
student4@AB1205BSCS031:~/Desktop/21BCE1288$ ./a.out
Main Thread:  pid 4272 tid 2118825792 (0x7e4ab740)
New Thread:  pid 4272 tid 2118821632 (0x7e4aa700)
student4@AB1205BSCS031:~/Desktop/21BCE1288$
```

Q2. Ans. The required c program is given as :

```
#include<stdio.h>
#include<unistd.h>
#include<pthread.h>
#include<stdlib.h>

pthread_t tid1,tid2,tid3;

void *hi(void *arg){
    int i;
```

