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## Experiment – 11

Aim: Write a program to create threads in Linux.

```
vi thread.c
#include <stdio.h>
#include <stdlib.h>
#include <unistd.h>
#include <pthread.h>
void *thread function(void *arg);
int i, j;
int main()
    pthread t a thread;
    pthread create(&a thread,
NULL, thread function, NULL);
    pthread join(a thread, NULL);
    printf("Inside main program\n");
    for(j = 20; j \le 25; j++)
         printf("j : %d\n", j);
         sleep(1);
void *thread function(void *arg)
     printf("Inside thread\n");
     for(i = 0; i < 5; i++)
         printf("i: %d\n", i);
         sleep(1);
}
gcc thread.c -o thread -lpthread
./thread
```

```
localhost:∼# vi thread.c
#include <stdio.h>
#include <stdlib.h>
#include <unistd.h>
#include <pthread.h>
void *thread function(void *arg);
int i, j;
int main()
      pthread t a thread;
      pthread_create(&a_thread, NULL, thread_function, NULL);
      pthread join(a thread, NULL);
      printf("Inside main program\n");
      for(j = 20; j \leftarrow 25; j++)
             printf("j : %d\n", j);
             sleep(1);
      }
void *thread_function(void *arg)
       printf("Inside thread\n");
       for(i = 0; i < 5; i++)
             printf("i : %d\n", i);
             sleep(1);
       }
localhost:~# gcc thread.c -o thread -lpthread
localhost:~# ./thread
Inside thread
i : 0
i:1
i : 2
i : 3
Inside main program
 : 20
j: 21
j: 22
i: 23
 : 24
  : 25
localhost:~#
```