Experiment -11

Aim: Write a program to create threads in Linux.

```
vi thread.c
                                         localhost:~# vi thread.c
  #include <stdio.h>
                                         #include <stdio.h>
  #include <stdlib.h>
                                         #include <stdlib.h>
  #include <unistd.h>
                                         #include <unistd.h>
  #include <pthread.h>
                                         #include <pthread.h>
  void *thread_function(void *arg);
                                         void *thread_function(void *arg);
  int i, j;
                                         int i, j;
  int main()
                                         int main()
      pthread_t a_thread;
                                               pthread_t a_thread;
                                               pthread_create(&a_thread, NULL, thread_function, NULL);
      pthread_create(&a_thread,
 NULL, thread_function, NULL);
                                               pthread_join(a_thread, NULL);
      pthread_join(a_thread, NULL);
                                               printf("Inside main program\n");
      printf("Inside main program\n");
                                               for(j = 20; j \leftarrow 25; j++)
      for(j = 20; j \le 25; j++)
                                                      printf("j : %d\n", j);
          printf("j : %d\n", j);
                                                      sleep(1);
          sleep(1);
                                        void *thread function(void *arg
 void *thread_function(void *arg)
                                                printf("Inside thread\n");
                                                for(i = 0; i < 5; i++)
      printf("Inside thread\n");
     for(i = 0; i < 5; i++)
                                                       printf("i : %d\n", i);
                                                       sleep(1);
          printf("i:%d\n", i);
          sleep(1);
                                        localhost:~# gcc thread.c -o thread -lpthread
}
                                        localhost:~# ./thread
                                        Inside thread
                                        i:0
gcc thread.c -o thread -lpthread
                                          ΑЛ
                                           : 2
./thread
                                          : 3
                                           : 4
                                        Inside main program
                                          : 20
                                          : 21
                                          : 23
                                          : 24
                                        localhost:~
```