1. Write C programs to demonstrate the following thread related concepts. (i) create (ii) join (iii) equal (iv) exit

#include <stdio.h>

#include <stdlib.h>

#include <pthread.h>

#include <unistd.h>

void\* threadFunc(void\* arg) {

int id = *((int*)arg);

printf("Thread %d is running.\n", id);

pthread\_exit(NULL);

}

int main() {

pthread\_t t1, t2;

int id1 = 1, id2 = 2;

pthread\_create(&t1, NULL, threadFunc, &id1);

pthread\_create(&t2, NULL, threadFunc, &id2);

if (pthread\_equal(t1, t2))

printf("Thread t1 and t2 are equal.\n");

else

printf("Thread t1 and t2 are NOT equal.\n");

pthread\_join(t1, NULL);

pthread\_join(t2, NULL);

printf("Both threads have finished execution.\n");

return 0;

}