30. Write a C Program to create two threads and print even numbers with one thread and odd numbers with another thread

Program:-

#include <stdio.h>

#include <pthread.h>

#define MAX\_NUMBER 20

void\* printEven(void\* arg) {

for (int i = 2; i <= MAX\_NUMBER; i += 2) {

printf("Even Thread: %d\n", i);

}

pthread\_exit(NULL);

}

void\* printOdd(void\* arg) {

for (int i = 1; i <= MAX\_NUMBER; i += 2) {

printf("Odd Thread: %d\n", i);

}

pthread\_exit(NULL);

}

int main() {

pthread\_t evenThread, oddThread;

// Create even thread

if (pthread\_create(&evenThread, NULL, printEven, NULL) != 0) {

printf("Failed to create even thread.\n");

return 1;

}

// Create odd thread

if (pthread\_create(&oddThread, NULL, printOdd, NULL) != 0) {

printf("Failed to create odd thread.\n");

return 1;

}

// Wait for both threads to finish

if (pthread\_join(evenThread, NULL) != 0) {

printf("Failed to join even thread.\n");

return 1;

}

if (pthread\_join(oddThread, NULL) != 0) {

printf("Failed to join odd thread.\n");

return 1;

}

return 0;

}

Output:-

