## **THREADS**

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```
#include <windows.h>
DWORD Sum of;
DWORD Diff;
DWORD product;
DWORD divi;
DWORD WINAPI Sum(LPVOID Param){
    para Upper = (para) Param;
    para Upper = (para) Param;
    if (Upper->operand1 > Upper->operand2) {
DWORD WINAPI Divide(LPVOID Param) {
```

```
if (Upper->operand2 == 0) {
   divi = Upper->operand1/Upper->operand2;
HANDLE ThreadHandle3;
int operation;
scanf("%d", &operation);
```

```
CloseHandle(ThreadHandle);
else if(operation == 2){
            NULL,
else if(operation == 3){
    WaitForSingleObject(ThreadHandle2,INFINITE);
    ThreadHandle3 = CreateThread(
```

```
//this system call will wait for the thread to finish, for infinite
amount of time.

WaitForSingleObject(ThreadHandle3,INFINITE);

//closing the thread here

CloseHandle(ThreadHandle3);

printf("Quotient: %lu\n",divi);
}
```

## Output:

```
C:\Windows\System32\cmd.exe
Microsoft Windows [Version 10.0.19042.906]
(c) Microsoft Corporation. All rights reserved.
C:\Users\RAVELLA ABHINAV\OneDrive\Desktop\Review2>gcc -o output thread.c
C:\Users\RAVELLA ABHINAV\OneDrive\Desktop\Review2>output.exe
please enter the first operand : 11
please enter the second operand : 13

    ADD

2. SUBTRACT
3. PRODUCT
4. DIVIDE
please choose an operation : 1
Sum: 24
C:\Users\RAVELLA ABHINAV\OneDrive\Desktop\Review2>
```

```
C:\Users\RAVELLA ABHINAV\OneDrive\Desktop\Review2>output.exe
please enter the first operand : 11
please enter the second operand : 13
1. ADD
SUBTRACT
PRODUCT
4. DIVIDE
please choose an operation : 3
product: 143
C:\Users\RAVELLA ABHINAV\OneDrive\Desktop\Review2>output.exe
please enter the first operand : 11
please enter the second operand : 13
1. ADD
SUBTRACT
PRODUCT
4. DIVIDE
please choose an operation : 4
Quotient: 0
C:\Users\RAVELLA ABHINAV\OneDrive\Desktop\Review2>
```