```
danielle2003@DESKTOP-KCH3605:-$ ./BasicCheck.sh /home/danielle2003/danielle/ariel-cpp-5779/01-what-is-cpp/1-hello a.out clang++-6.0 -std=c++17 *.cpp

Compilation PASS Memory leaks FAIL Tread race PASS
```

```
**
* This is a "hello world" program for the C++ course.
*/

#include <iostream>
using namespace std;

int main() {
    string name;
    cout << "What is your name? ";
    // cin >> name;
    cout << endl << "Hello " << name << "!" << endl;
    cout << (1 << 5) << endl;
    int* test = (int *)std::malloc(4*sizeof(int));
    return 0;
}</pre>
```

2. דוגמה להרצה בה הכל עבר בהצלחה:

```
danielle2003@DESKTOP-KCH3605:~$ ./BasicCheck.sh /home/danielle2003/danielle/ariel-cpp-5779/01-what-is-cpp/1-hello a.out clang++-6.0 -std=c++17 *.cpp

Compilation PASS Memory leaks PASS Tread race PASS
```

```
* This is a "hello world" program for the C++ course.

*/

#include <iostream>
using namespace std;

int main() {
    string name;
    cout << "What is your name? ";
    // cin >> name;
    cout << endl << "Hello " << name << "!" << endl;
    cout << (1 << 5) << endl;
    return 0;
}</pre>
```

3. דוגמה להרצה שאין זליגת זכרון, הקומפילציה עברה אבל יש זליגת תהליכונים:

danielle2003@DESKTOP-KCH3605:~\$./BasicCheck.sh /home/danielle2003/danielle/ariel-cpp-5779/01-what-is-cpp/1-hello race1 make: 'race1' is up to date.

Compilation PASS Memory leaks PASS Tread race FAIL

```
#include <pthread.h>
    int var = 0;

void* child_fn ( void* arg )
    {
        var++; /* Unprotected relative to parent */ /* this is line 6 */
        return NULL;
    }

int main ( void )
    {
            pthread_t child;
            pthread_create (&child, NULL, child_fn, NULL );
            var++; /* Unprotected relative to child */ /* this is line 13 */
            pthread_join (child, NULL );
            return 0;
    }
}
```