

דוגמאות הרצה עבור מטלה 1

1. דוגמאת הרצה כאשר אין Makefile – יתר הבדיקות לא רלוונטיות ולכן מקבלות ערך של FAIL, מכאן שהתוכנית תחזיר 7.

The screenshot shows a C++ program in a text editor and its execution in a terminal. The program prints "Hello, World!" and allocates memory. The terminal output shows the program running successfully, but the compilation, memory leaks, and thread race tests all fail, resulting in a return value of 7.

```
#include <iostream>
#include <cstdlib>
using namespace std;

int main()
{
    cout << "Hello, World!";
    //int *p = (int*)malloc(1000*sizeof(int));

    return 0;
}
```

```
[03/08/19]seed@VM:~$ cd Desktop
[03/08/19]seed@VM:~/Desktop$ cd Desktop
bash: cd: Desktop: No such file or directory
[03/08/19]seed@VM:~/Desktop$ ./basicCheck.sh /home/seed/Desktop/michal hello
/./home/seed/Desktop/michal
hello

exiting..
Compilation      Memory leaks   thread race
FAIL             FAIL          FAIL
7
```

2. דוגמאת הרצה כאשר יש Makefile, הקומפילציה עובדת ואין אף שגיאה: כל הבדיקות מקבלות ערך של PASS ולכן התוכנית תחזיר 0.

The screenshot shows the same C++ program as in the first example, but with a Makefile added to the directory. The terminal output shows that the compilation, memory leaks, and thread race tests all pass, resulting in a return value of 0.

```
#include <iostream>
#include <cstdlib>
using namespace std;

int main()
{
    cout << "Hello, World!";
    //int *p = (int*)malloc(1000*sizeof(int));

    return 0;
}
```

```
[03/08/19]seed@VM:~/Desktop$ ./basicCheck.sh /home/seed/Desktop/michal hello
/./home/seed/Desktop/michal
hello

there is a make file
Compilation      Memory leaks   thread race
PASS            PASS          PASS
0
```

3. דוגמאת הרצה כאשר יש Makefile, אך הקומפילציה לא עובדת:

The screenshot shows the same C++ program as in the second example, but with a Makefile that has a syntax error. The terminal output shows that the compilation, memory leaks, and thread race tests all fail, resulting in a return value of 7.

```
#include <iostream>
#include <cstdlib>
using namespace std;

int main()
{
    cout << "Hello, World!";
    //int *p = (int*)malloc(1000*sizeof(int));

    return 0;
}
```

```
[03/08/19]seed@VM:~/Desktop$ ./basicCheck.sh /home/seed/Desktop/michal hello
/./home/seed/Desktop/michal
hello

there is a make file
Compilation      Memory leaks   thread race
FAIL            FAIL          FAIL
7
```

4. דוגמאת הרצה כאשר יש Makefile , הקומפילציה עובדת ואין מירוח – אך יש זליגת זיכרון:

```
include <iostream>
include <cstdlib>
using namespace std;

int main()

    cout << "Hello, World!";
    int *p = (int*)malloc(1000*sizeof(int));

    return 0;
```

```
Desktop | michal
hello
hello.cpp
Makefile
outputTrace.txt
outputMake.txt
outputMemory.txt

"hello.cpp" select
```

```
/bin/bash
[03/08/19]seed@VM:~/Desktop$ ./basicCheck.sh /home/seed/Desktop/michal hello
/home/seed/Desktop/michal
hello

there is a make file
Compilation      Memory leaks    thread race
PASS             FAIL           PASS
2
```