Top screenshot terminal:

```
imanuel@imanuel-HP-Pavilion-Notebook:~/Desktop$ bash BasicCheck.sh /home/imanuel/Desktop/bash_script race
Compilation       Memory leaks        Thread race
FAIL              FAIL                FAIL
imanuel@imanuel-HP-Pavilion-Notebook:~/Desktop$
```

Bottom screenshot terminal:

```
imanuel@imanuel-HP-Pavilion-Notebook:~/Desktop$ bash BasicCheck.sh /home/imanuel/Desktop/bash_script race
Compilation       Memory leaks        Thread race
FAIL              FAIL                FAIL
imanuel@imanuel-HP-Pavilion-Notebook:~/Desktop$
```

Bottom screenshot makefile editor:

```
all: race.o

race.o: Race.cpp
	-pthread Race.cpp -o race

clean:
	rm *.o
```

Screenshot 1 (Tue 15:54)

Terminal:
```
imanuel@imanuel-HP-Pavilion-Notebook:~/Desktop$ bash BasicCheck.sh /home/imanuel/Desktop/bash_script race
Compilation      Memory leaks      Thread race
PASS             FAIL              FAIL
imanuel@imanuel-HP-Pavilion-Notebook:~/Desktop$
```

Race.cpp:
```cpp
#include <pthread.h>
#include<iostream>

int var = 0;

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

int main ( void ) {
    int *p= (int*) malloc(100* sizeof(int));
    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;
}
```

Screenshot 2 (Tue 15:55)

Terminal:
```
imanuel@imanuel-HP-Pavilion-Notebook:~/Desktop$ bash BasicCheck.sh /home/imanuel/Desktop/bash_script race
Compilation      Memory leaks      Thread race
PASS             PASS              FAIL
imanuel@imanuel-HP-Pavilion-Notebook:~/Desktop$
```

*Race.cpp:
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#include<iostream>

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void* child_fn ( void* arg ) {
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int main ( void ) {
    int *p= (int*) malloc(100* sizeof(int));
    // 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;
}
```

imanuel@imanuel-HP-Pavilion-Notebook: ~/Desktop

File Edit View Search Terminal Help

```
imanuel@imanuel-HP-Pavilion-Notebook:~/Desktop$ bash BasicCheck.sh /home/imanuel/Desktop/bash_script race
Compilation          Memory leaks          Thread race
PASS                 PASS                   PASS
imanuel@imanuel-HP-Pavilion-Notebook:~/Desktop$
```

Race.cpp
~/Desktop/bash_script

Open   Save

| makefile | × | Race.cpp | × |

```cpp
#include <pthread.h>
#include<iostream>

int var = 0;

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

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