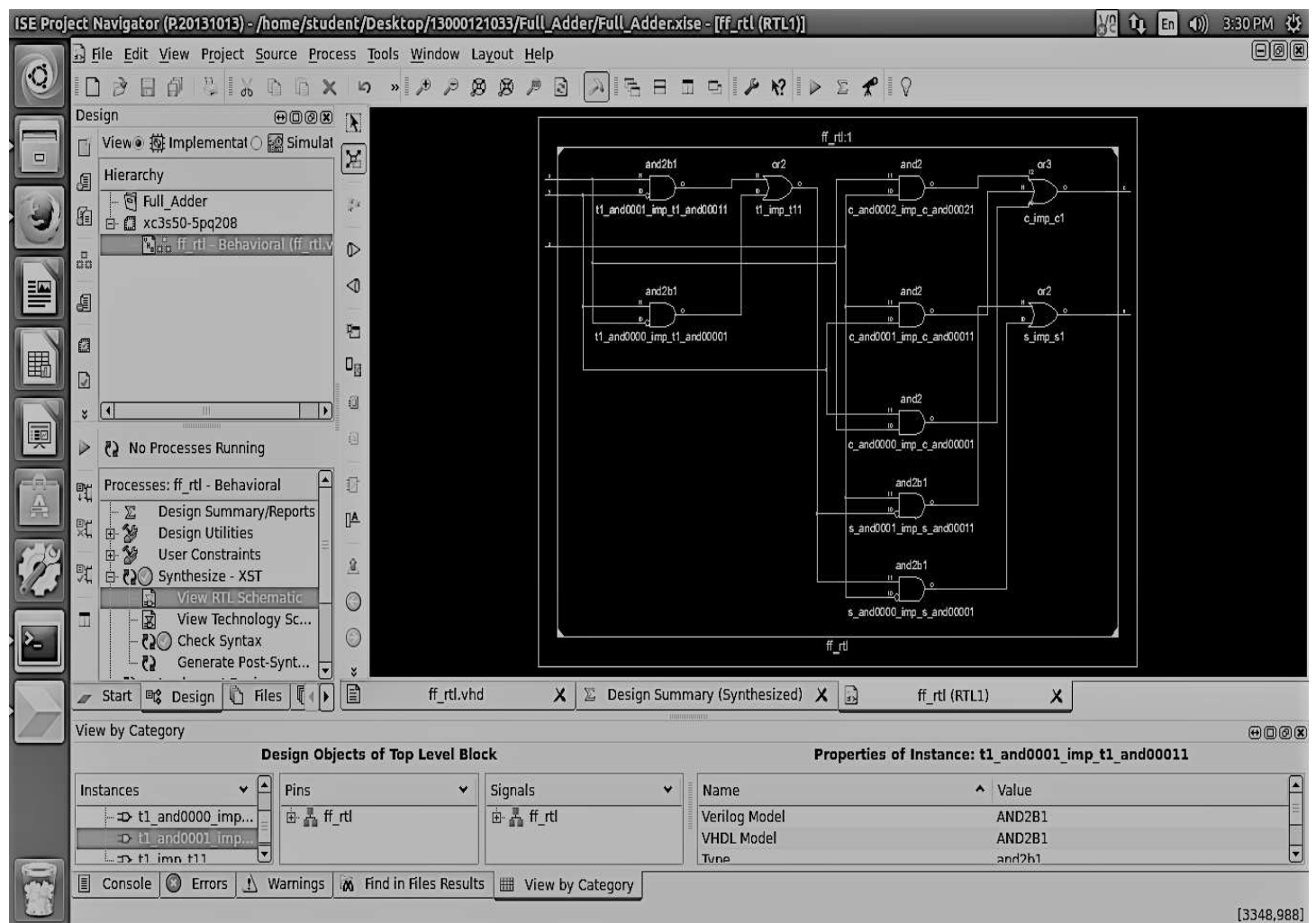
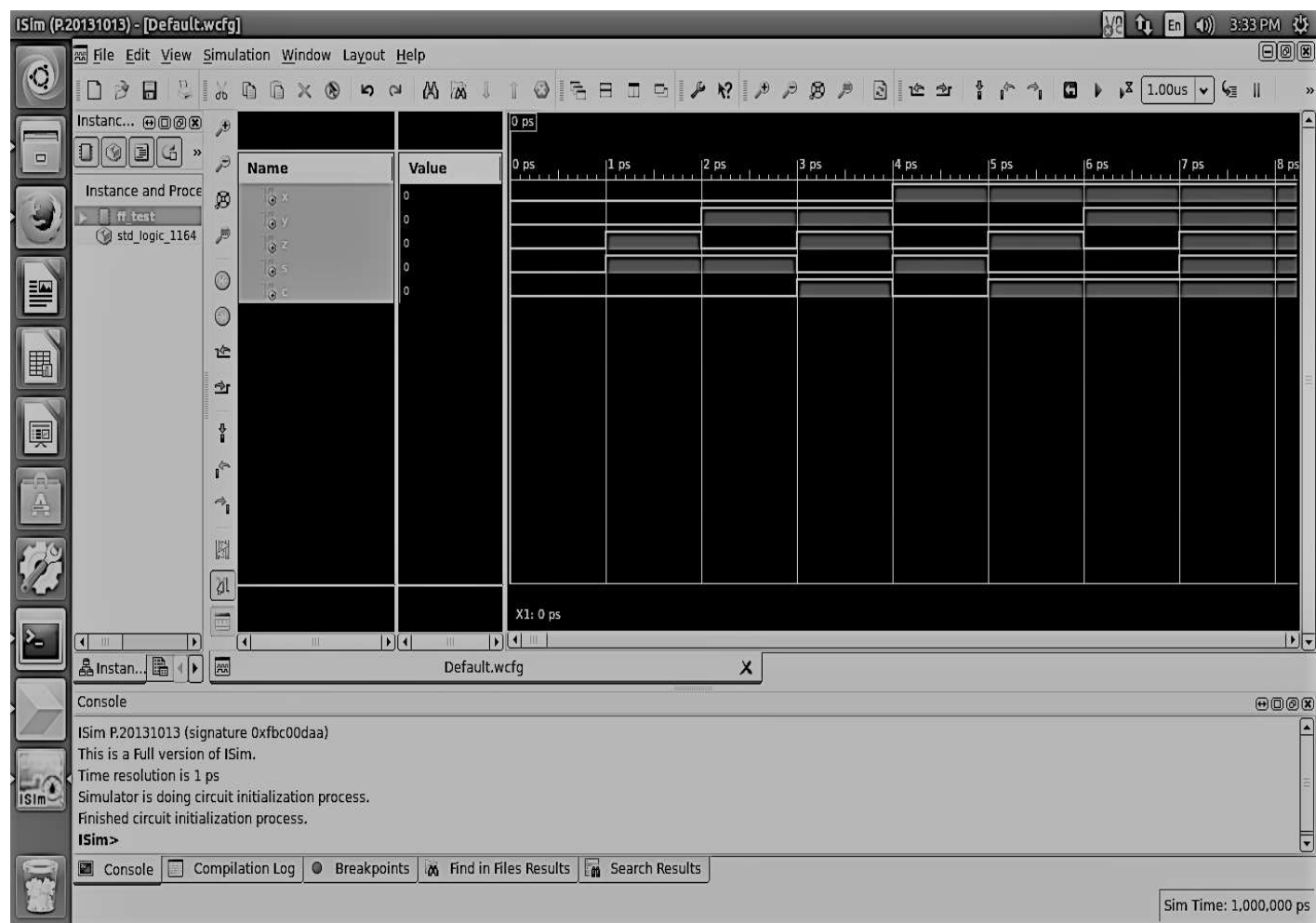


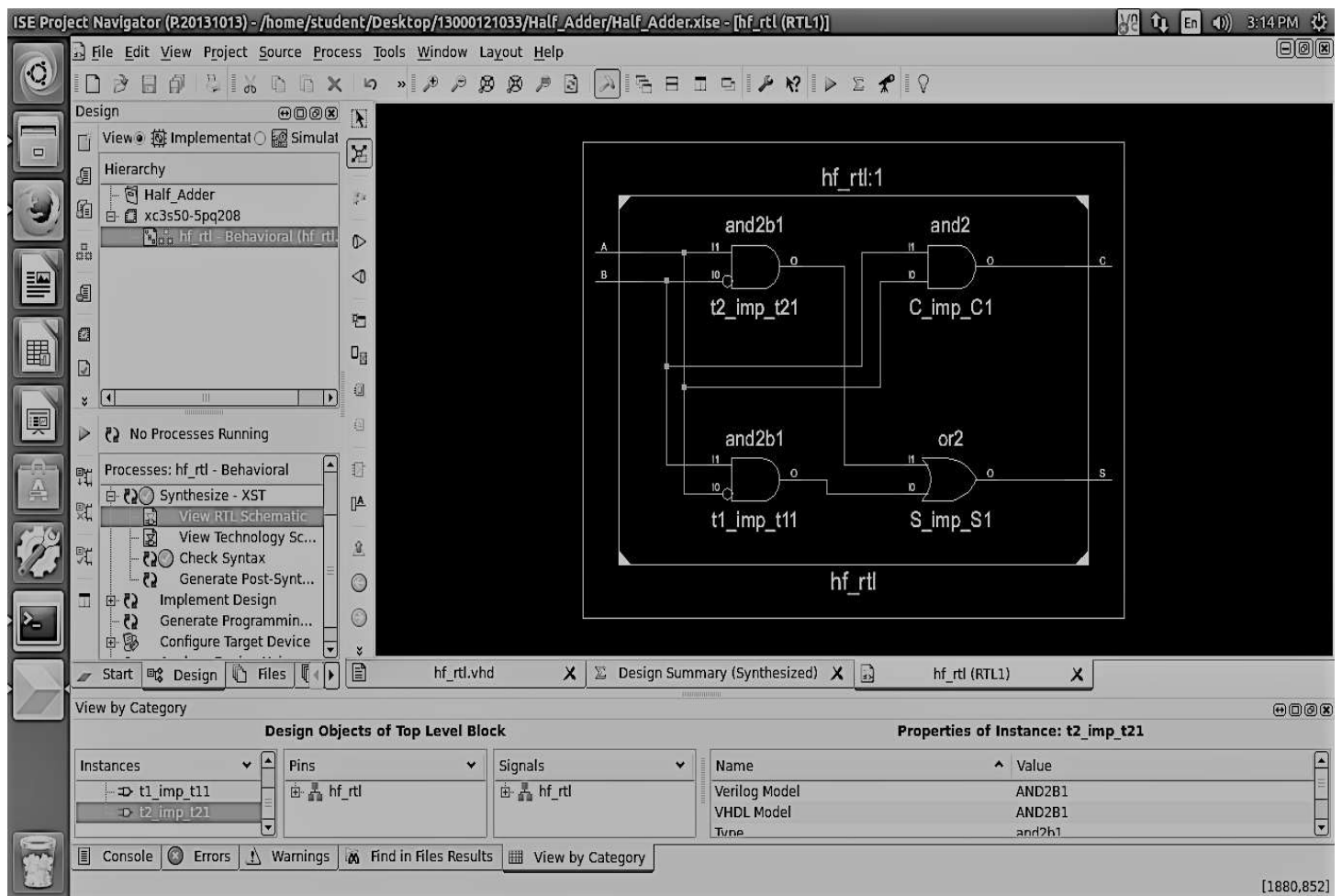
# SCHEMATIC OUTPUT



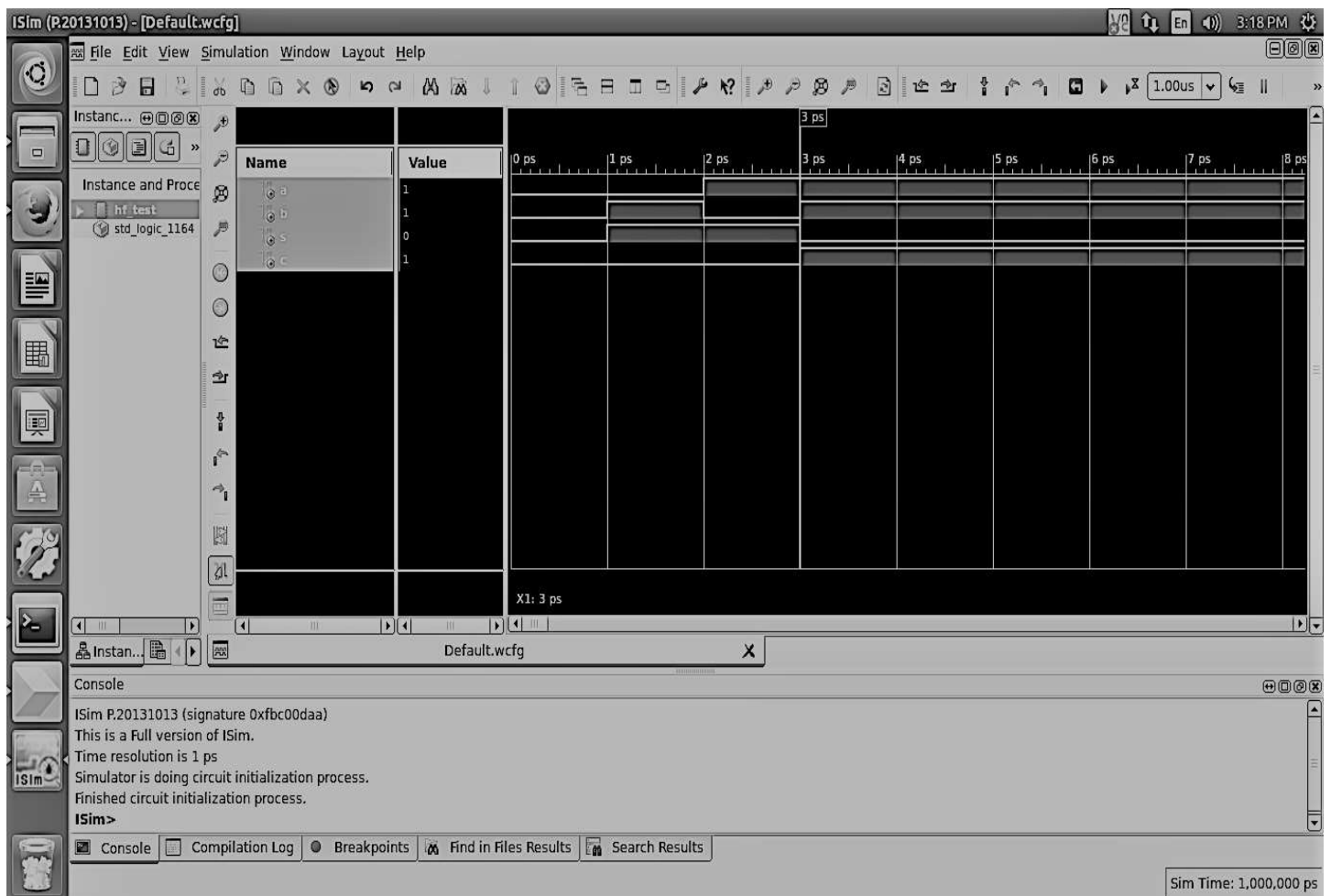
# TEST OUTPUT



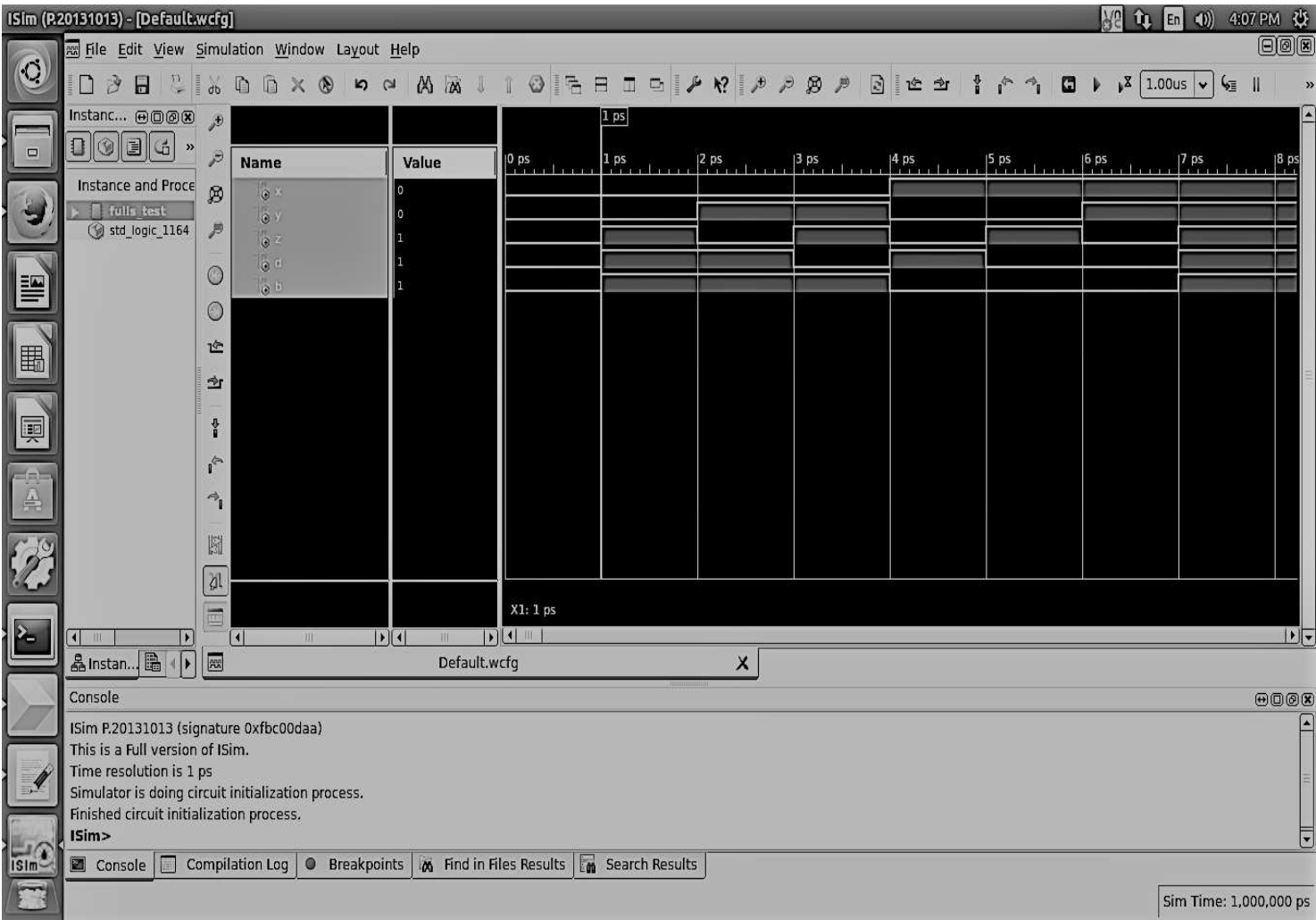
# SCHEMATIC OUTPUT



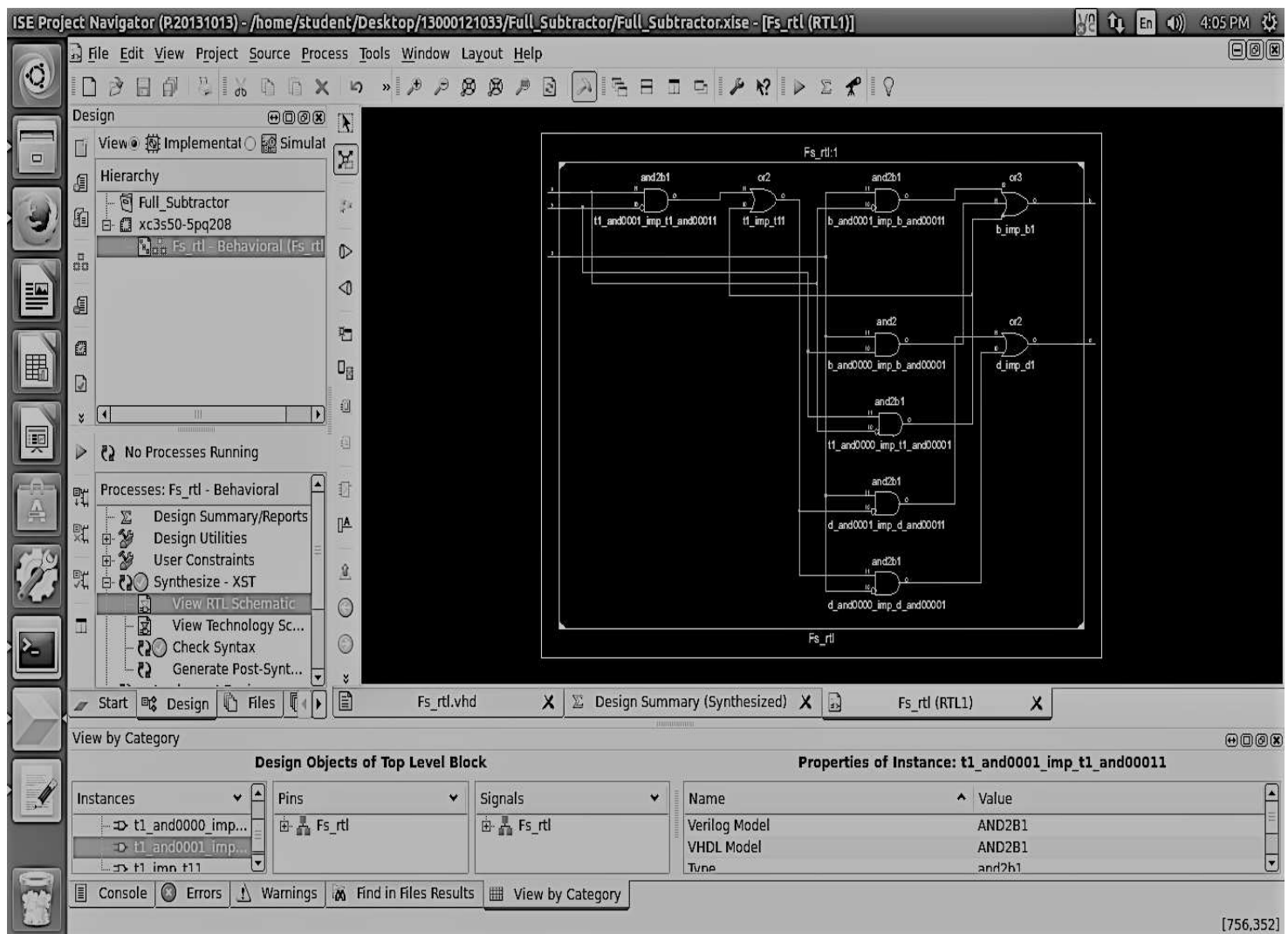
# TEST OUTPUT



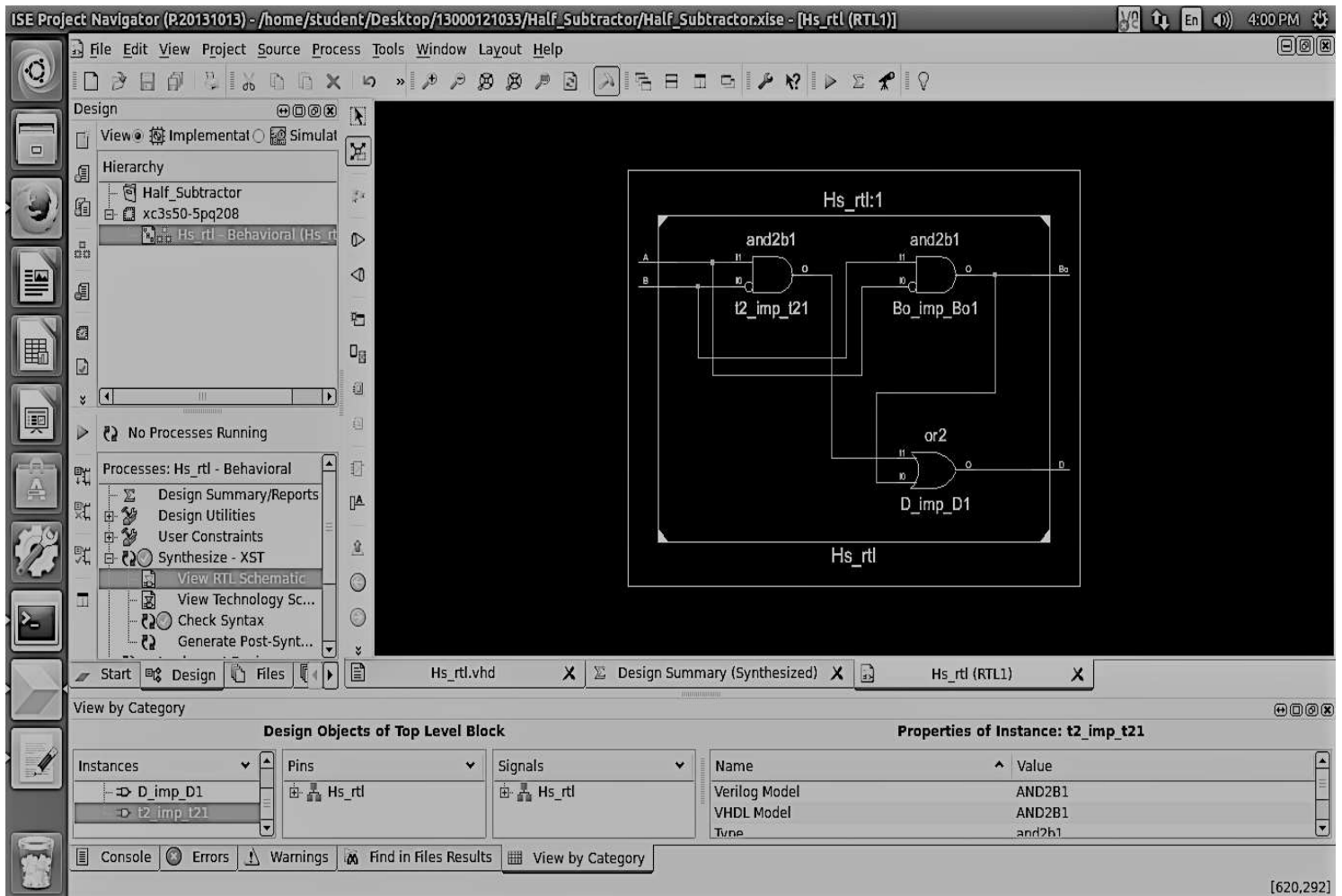
# TEST OUTPUT



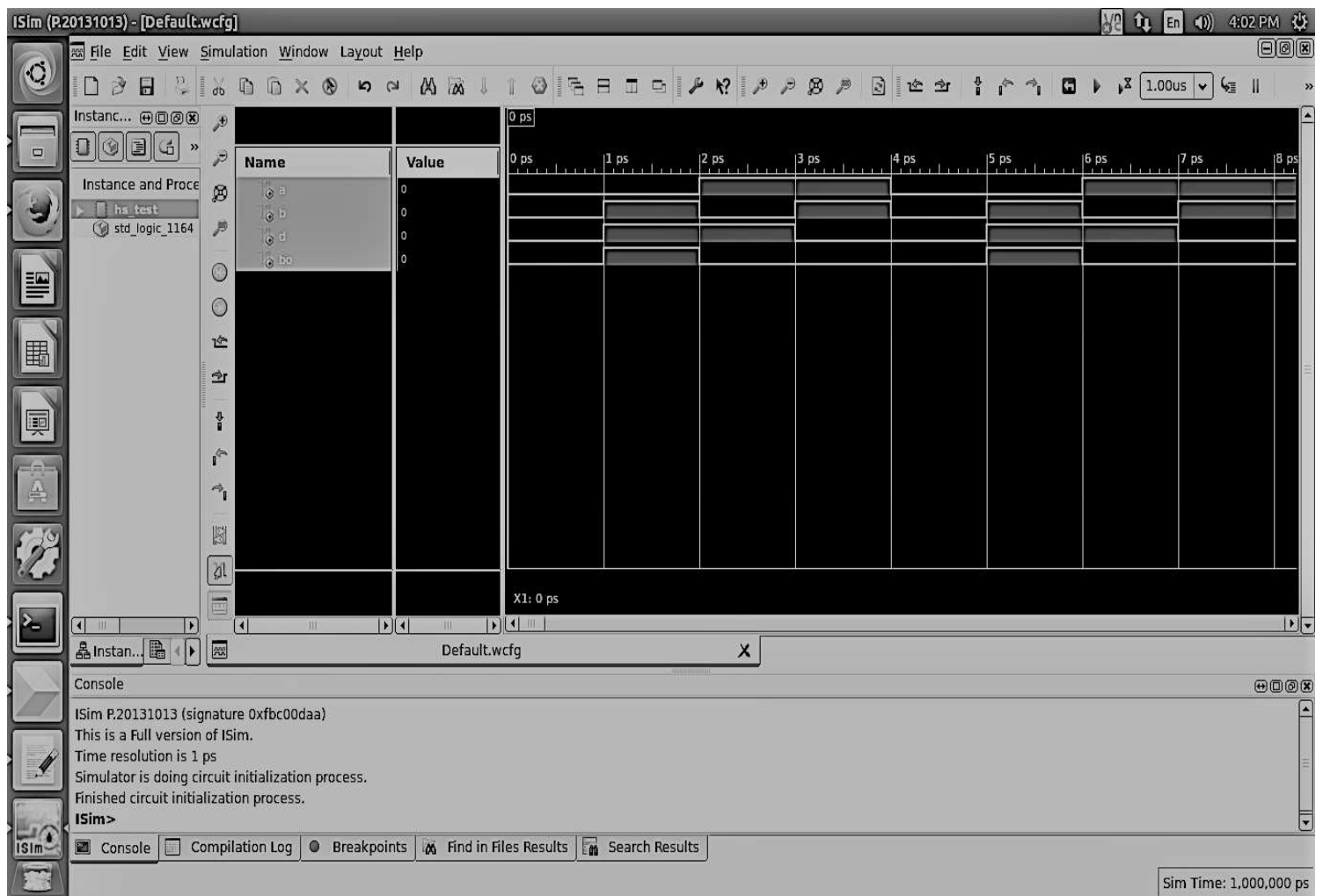
# SCHEMATIC OUTPUT



# SCHEMATIC OUTPUT



# TEST OUTPUT





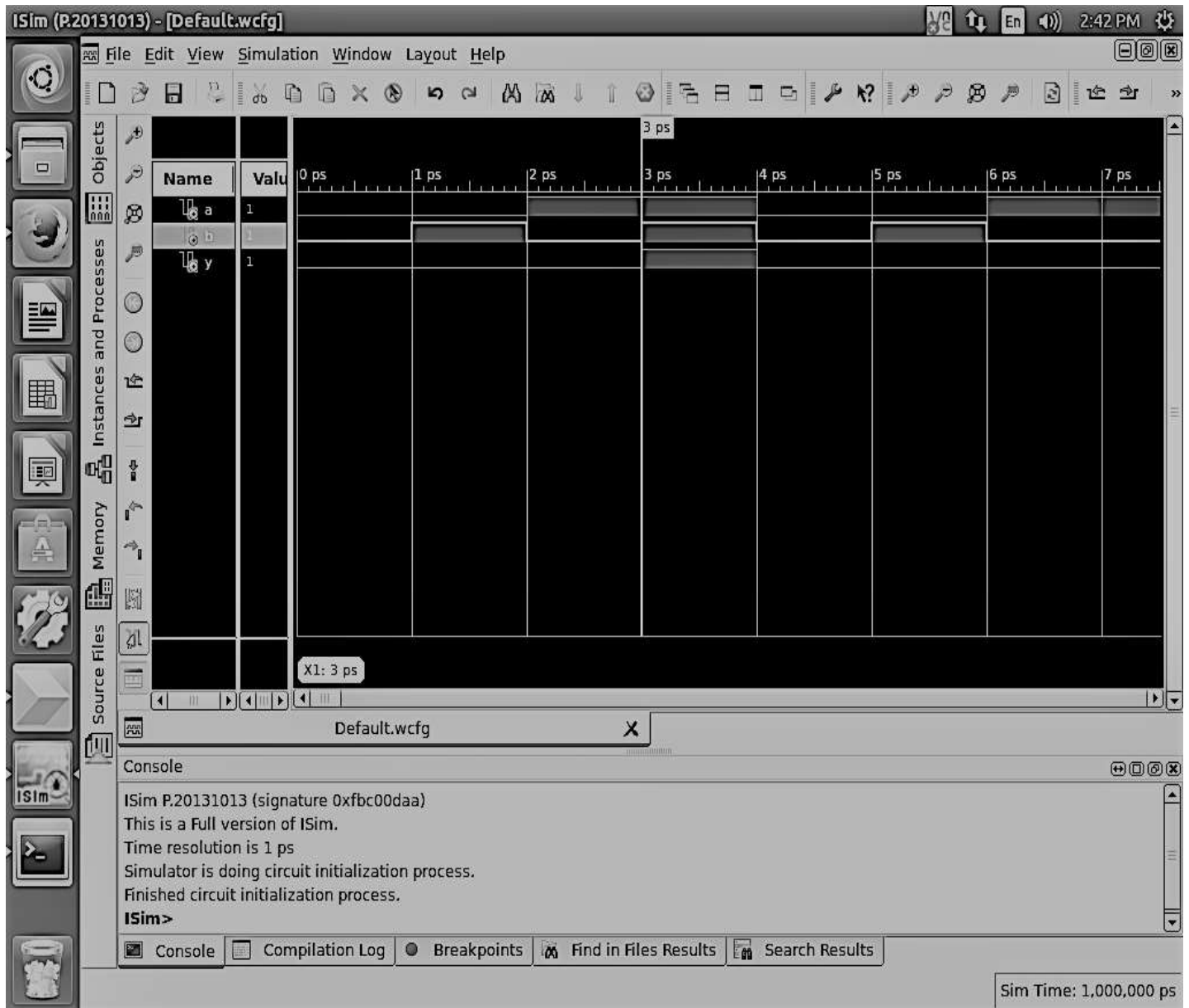
# OUTPUT

```
student@c05-60: ~/Desktop/arka
student@c05-60:~/Desktop/arka$ gcc Q1.c
student@c05-60:~/Desktop/arka$ ./a.out
Enter the number of elements:
4
Enter the element 1: 12
Enter the element 2: 23
Enter the element 3: 34
Enter the element 4: 67
The array of elements is:
12 23 34 67 Enter the element to be searched for: 23
Element found at position 1
student@c05-60:~/Desktop/arka$ ./a.out
Enter the number of elements:
5
Enter the element 1: 34
Enter the element 2: 45
Enter the element 3: 56
Enter the element 4: 67
Enter the element 5: 100
The array of elements is:
34 45 56 67 100 Enter the element to be searched for: 100
Element found at position 4
student@c05-60:~/Desktop/arka$ ./a.out
Enter the number of elements:
3
Enter the element 1: 12
Enter the element 2: 23
Enter the element 3: 44
The array of elements is:
12 23 44 Enter the element to be searched for: 12
Element found at position 0
student@c05-60:~/Desktop/arka$
```

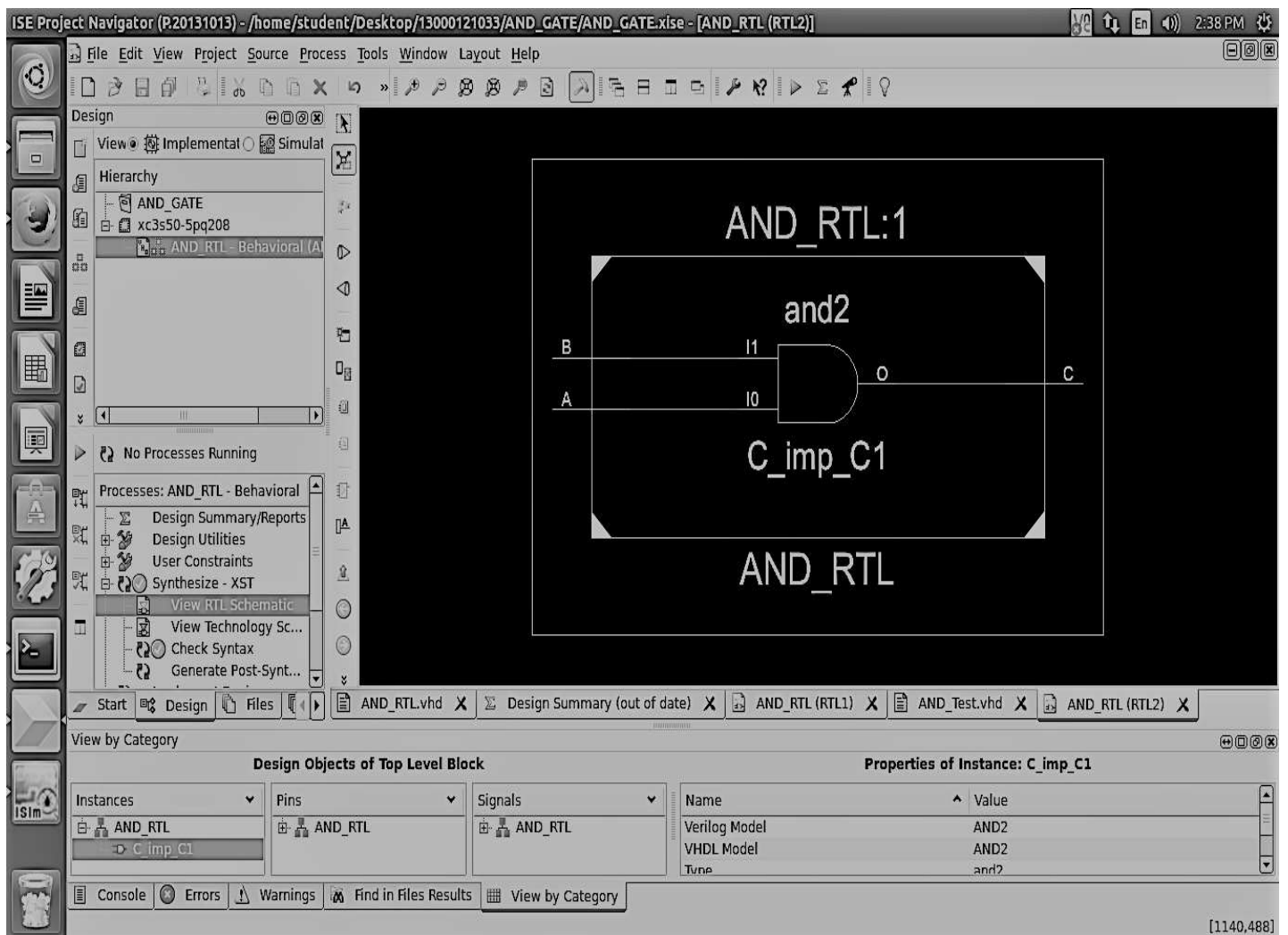
# OUTPUT

```
student@c05-60: ~/Desktop/arka
student@c05-60:~/Desktop/arka$ gcc Q2.c
student@c05-60:~/Desktop/arka$ ./a.out
Enter the number of elements: 4
Enter the element 1:12
Enter the element 2:23
Enter the element 3:3
Enter the element 4:8
The Array is: 12 23 3 8
Enter the choice 1->mergesort 2->quick sort 3->heap sort
1
The sorted array is: 3 8 12 23 student@c05-60:~/Desktop/arka$ ./a.out
Enter the number of elements: 3
Enter the element 1:12
Enter the element 2:23
Enter the element 3:2
The Array is: 12 23 2
Enter the choice 1->mergesort 2->quick sort 3->heap sort
2
The sorted array is: 2 12 23 student@c05-60:~/Desktop/arka$ ./a.out
Enter the number of elements: 2
Enter the element 1:34
Enter the element 2:3
The Array is: 34 3
Enter the choice 1->mergesort 2->quick sort 3->heap sort
3
The sorted array is: 3 34 student@c05-60:~/Desktop/arka$
```

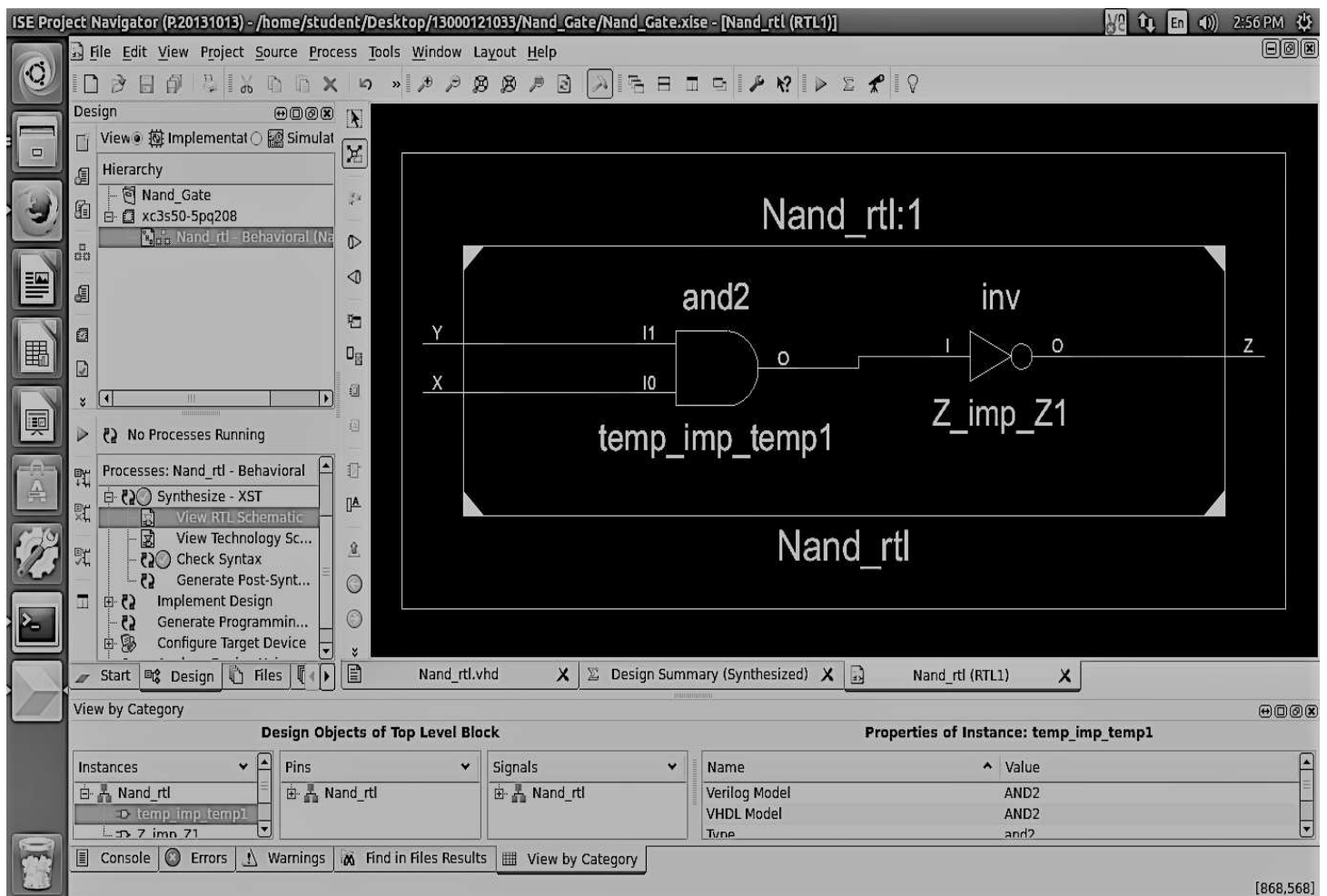
# TEST OUTPUT



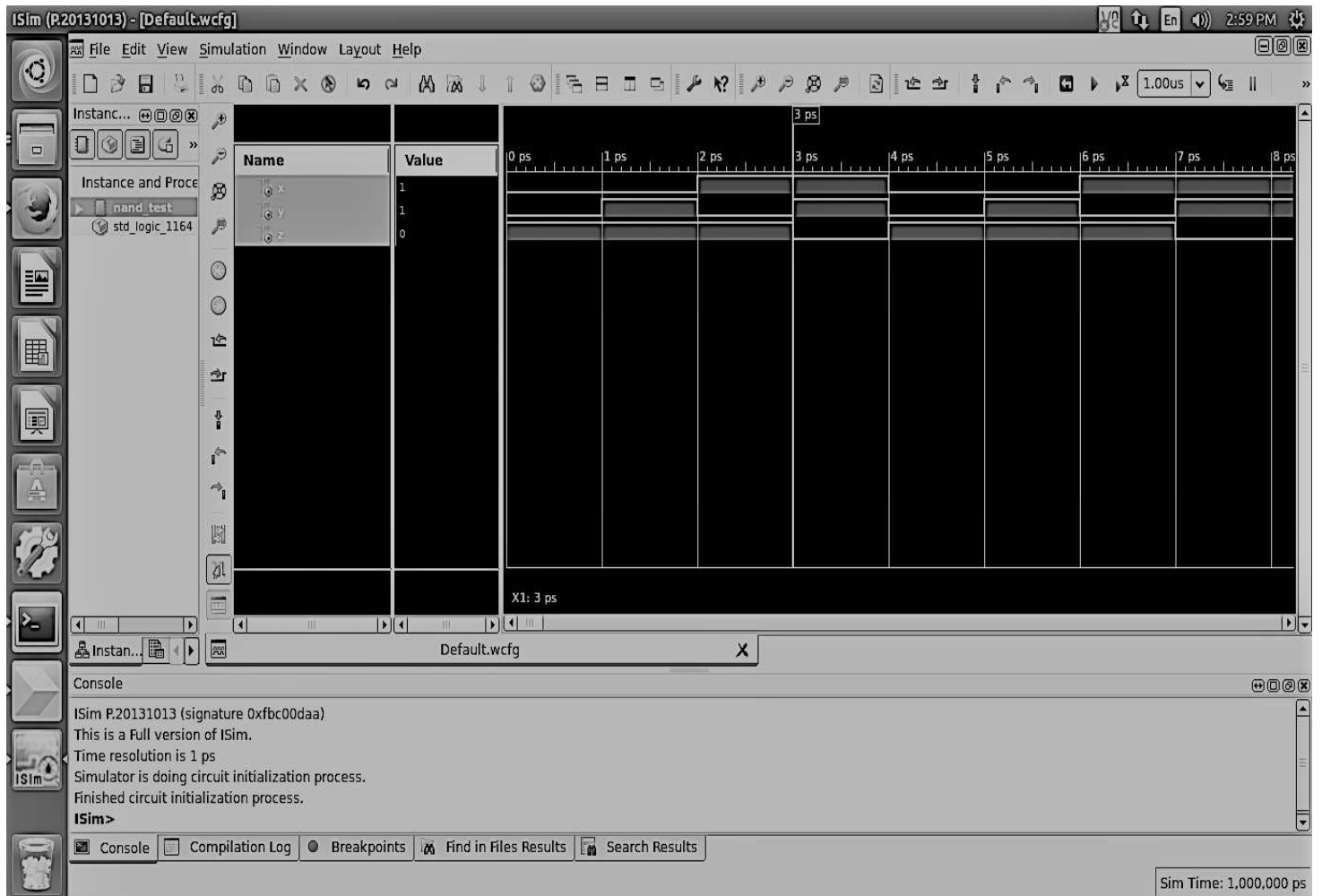
# SCHEMATIC OUTPUT



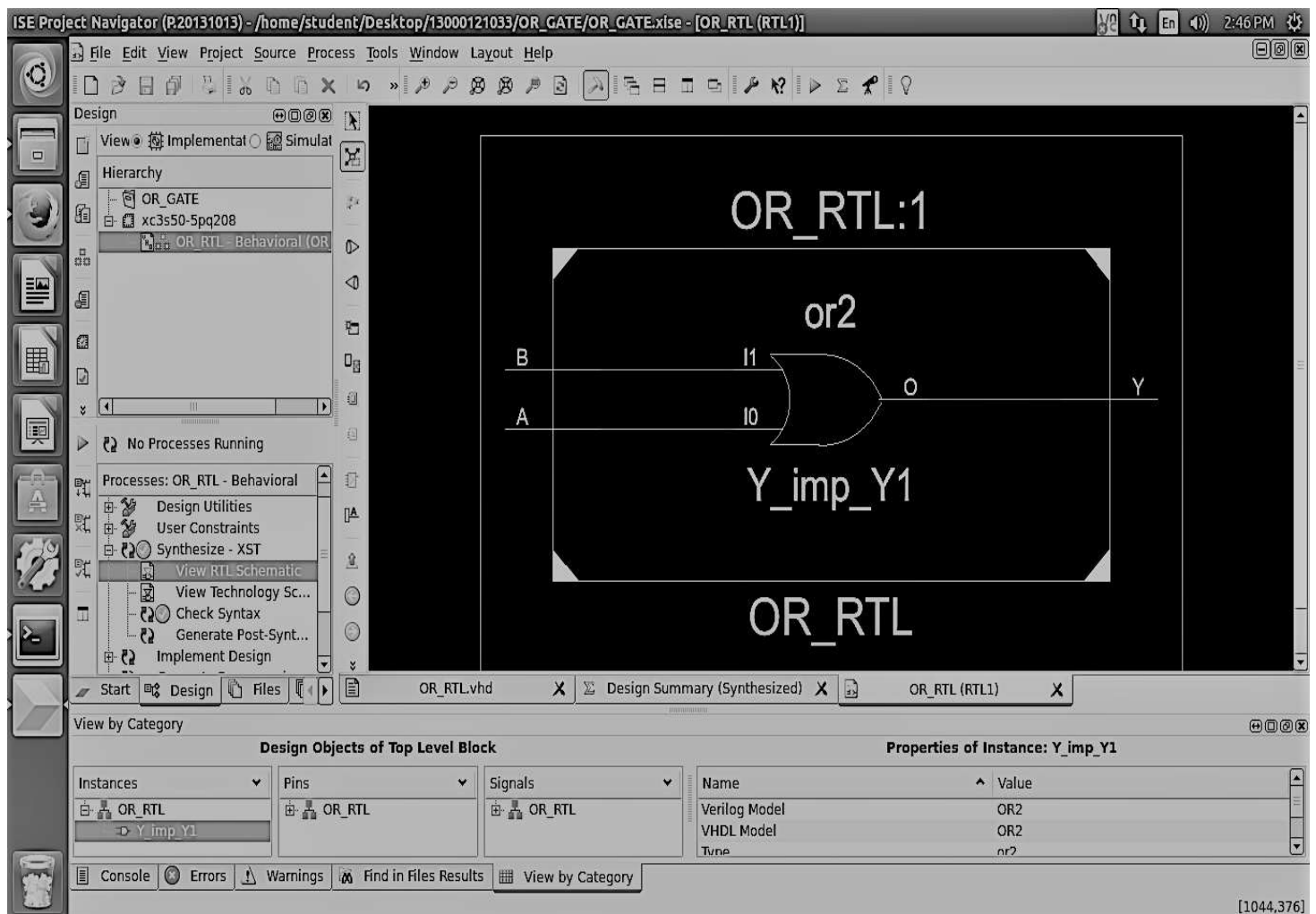
# SCHEMATIC OUTPUT



# TEST OUTPUT



# SCHEMATIC OUTPUT



# TEST OUTPUT

