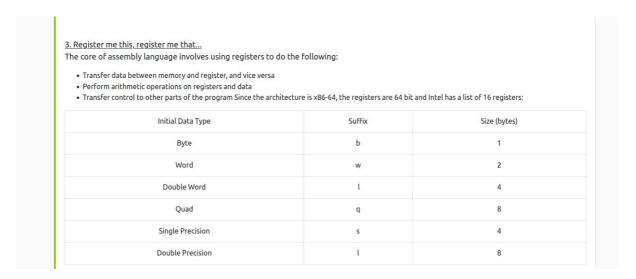
## Day 17 - [Reverse Engineering] ReverseELFneering

Tool Used: Kali Linux, firefox, Nmap, radare2

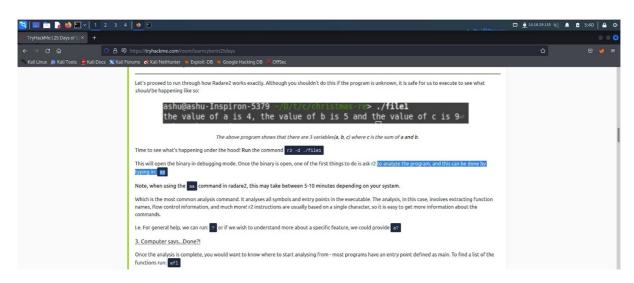
## Solution/walkthrough:

### **Q1**



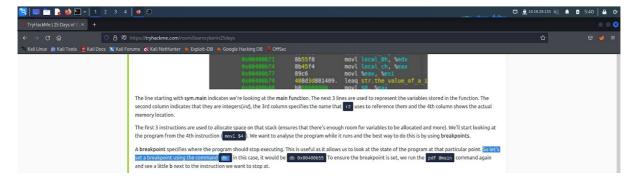
study from Try Hack Me.

## <u>Q2</u>



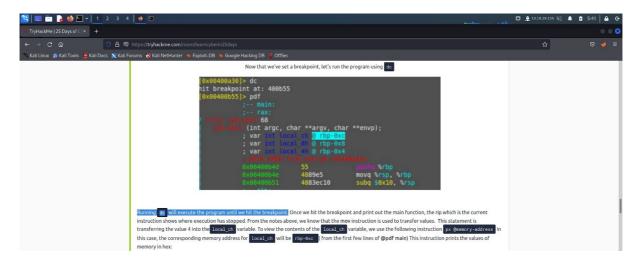
study from Try Hack Me.

<u>Q3</u>



study from Try Hack Me.

### **Q4**



Study from Try Hack Me.

#### **Q5**

```
[0×00400a30]> pdf@main
                in 35
              ();
              ; var int local_ch @ rbp-0×c
              ; var int local_8h @ rbp-0×8
              ; var int local_4h @ rbp-0×4
             0×00400b4d
             0×00400b4e
                                4889e5
                                                  mov rbp, rsp
                                c745f4010000. mov dword [local_ch], 1
c745f8060000. mov dword [local_8h], 6
             0×00400b51
             0×00400b58
                                                  mov eax, dword [local_ch]
imul eax, dword [local_8h]
             0×00400b5f
                                8b45f4
             0×00400b62
                                0faf45f8
                                                  mov dword [local_4h], eax
             0×00400b66
                                8945fc
                                                  mov eax, 0
             0×00400b69
                                b800000000
             0×00400b6e
                                 5d
             0×00400b6f
                                c3
0×00400a30]>
```

it copies value 1 to [local ch]. therefore, the value of [local 8h] should be 1.

# <u>Q6</u>

when mov dword [local\_8h] is called, the value of [local\_8h] becomes 6. when mov eax, dword [local\_ch] is called, the value of eax becomes 1. when imul is called, it multiplies the value of [local\_8h] to eax, which is 6\*1. Therefore, the value of eax should be 6.

## <u>Q7</u>

it copies the value of eax to [local\_4h]. Therefore, the value should be 6.