1. 0_AddressMap

a. The value stored in R0 after the program has been run is 85 in decimal.



b.

4000	00	01	00	54
4004	00	01	00	58
4008	00	01	00	5c
4012	00	01	00	00

```
See Carlotices Very Cor Earn Formal News

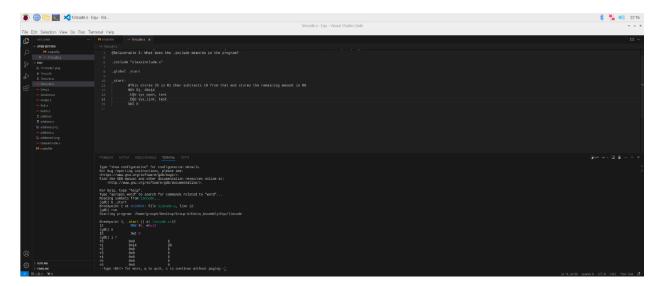
Fig. 40 Dates New Cor Earn Formal New Correct New Co
```

2. 1_AddInclude

a.

```
The CELL Outdoor Vote Co Func Turnord Vote Co Func Func Vote Fu
```

b.

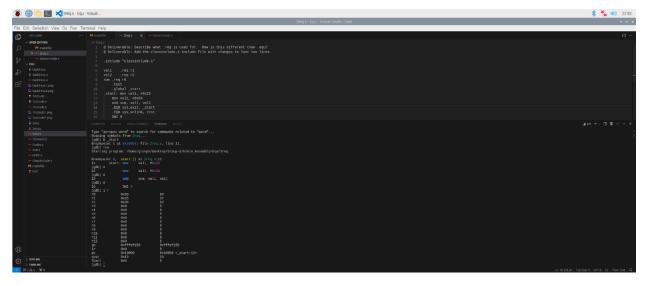


c. The include function allows another file to be accessed by the current program. This increases the modularity of programs, aiding in making programs easier to customize to specific roles.

3. 2_req_p2_2

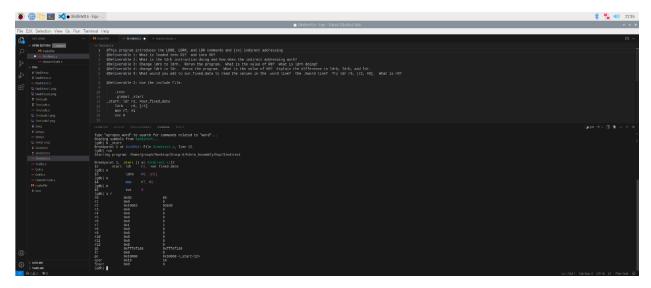
a. The role of the. req function is to assign a name to a register for the purpose of better clarity when writing scripts.

b.



4. 3_Indirect2_3a

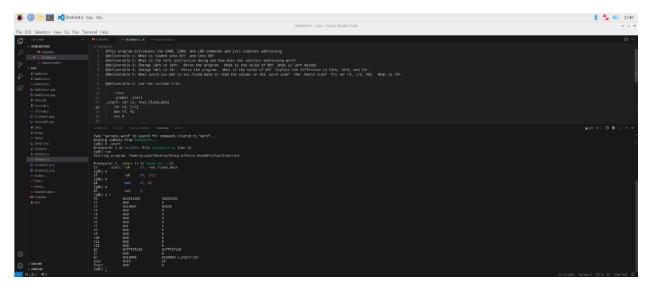
a. 65,636 in decimal is loaded into R2.85 in decimal is loaded into R0



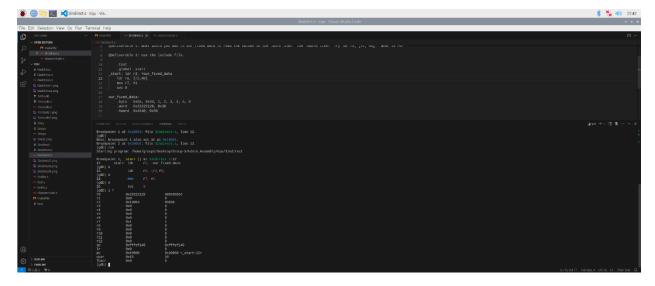
- b. The LDRB is used to load a single byte of data from the memory onto a register. Indirect addressing works by first loading the data to a register and reading from there instead of directly from the memory.
- c. 13,141 in decimal is loaded into R0. This command loads the half-words in R2, which are 0x33 and 0x55 in that order.

```
| Companies | Comp
```

d. 33633100 in decimal is loaded to R0. The difference between ldrb, ldrh, and ldr is that ldrb loads a single byte, ldrh loads a half-word, and ldr loads a full register.



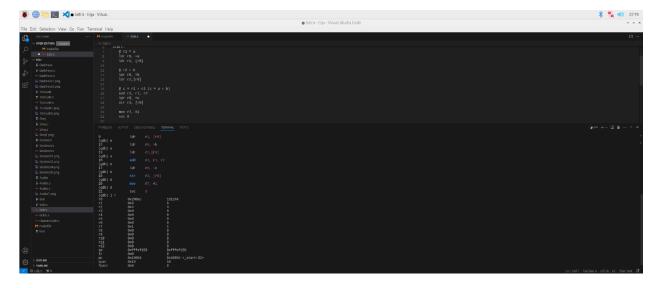
e. You can specify the ldr function to skip a specified number of bytes to access other lines of data.



5. 4_subs_ex2_6

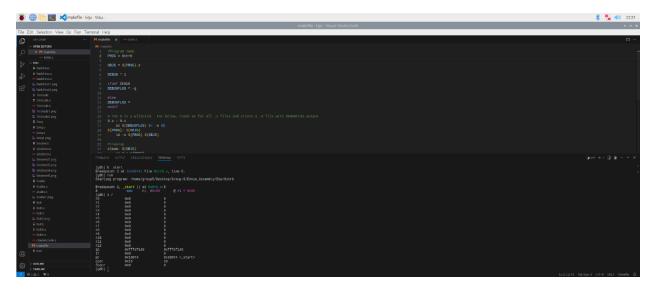
a. The z-flag is set to 0.

- 6. 5_str_p2_3b
 - a. The str instruction saves the data on a register to the memory.
 - b.



7. 6_strb_ex2_3

a.



```
### Cast Conductor Valve Con Data Terrand Hope

### Cast Con Data Terrand Hop
```

- b. The strb function stores the least significant byte in the register to the memory.
- c. This reserves a block of memory space without initializing it.