

**n** 16-bit data are stored starting from memory location **loc1**. Write an ALP that will copy selected data in certain positions into memory location **loc2**. The number of data to be copied is stored in **offc**. **offc** can be any value from 2 to **n**. The value of **n** is between  $1_d$  to  $9_d$  and is stored in location **cnt1**. The positions of the data that have to be copied are stored from **off1** onwards.

*The ALP has to take the offset values from user. If offc is 5 then the following process must be done 5 times."*

"Enter offset to be copied ". User will enter a single digit as offset. This will be repeated **offc** times.

Each time "Enter the offset to be copied ". Must be displayed on the new line.

For eg.

**cnt1: 7**

**offc: 4**

**loc1: 1234h,4567h,1233h,1457h,1abch,6780h,2314h**

**off1: 1,2,5,1 (given by user)**

after the ALP is executed loc2 should be as follows

**loc2:1234h,4567h,1abch,1234h**