Test case - 2

User choices:

1. Create new ExtendibleHashTable
2. Add an element to the HashTable
3. Search an element to the HashTable
4. Delete an element from the HashTable
5. Print HashTable

Any other choice to exit

Input flow:

- Taking choice 1 [line 1], asks inputs for global depth and number of entries in the bucket.
- After taking the inputs [line 2&3], it creates the Extendible hash table of director size 4 and bucket size 2.
- Taking choice 2 [line 4], asks input and inserts the input value “16” into hash table.
- Taking choice 2 [line 6], asks input and inserts the input value “32” into hash table.
- Taking choice 5 [line 8], it prints the current state of hash table. (ref. output file [line 2])
- Taking choice 2 [line 9], asks input and inserts the input value “0” into hash table.
- While inserting value “0”, it requires **doubling** of the directory **thrice** and **splitting** of the current bucket.
- Taking choice 5 [line 11], it prints the current state of hash table. (ref. output file [line 12])
- Taking choice 2 [line 12], asks input and inserts the input value “64” into hash table.
- While inserting value “64”, it requires **doubling** of the directory and **splitting** of the current bucket.
- Taking choice 5 [line 14], it prints the current state of hash table. (ref. output file [line 25])
- Taking choice -1 [line 15], it exits the program.