Test case - 3

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 4.
- Taking choice 2 [line 4], asks input and inserts the input value "15" into hash table.
- Taking choice 2 [line 6], asks input and inserts the input value "4" into hash table.
- Taking choice 2 [line 8], asks input and inserts the input value "1" into hash table.
- Taking choice 2 [line 10], asks input and inserts the input value "10" into hash table.
- Taking choice 2 [line 12], asks input and inserts the input value "5" into hash table.
- Taking choice 2 [line 14], asks input and inserts the input value "7" into hash table.
- Taking choice 2 [line 16], asks input and inserts the input value "21" into hash table.
- Taking choice 2 [line 18], asks input and inserts the input value "12" into hash table.
- Taking choice 2 [line 20], asks input and inserts the input value "19" into hash table.
- Taking choice 2 [line 22], asks input and inserts the input value "32" into hash table.
- Taking choice 2 [line 24], asks input and inserts the input value "16" into hash table.
- Taking choice 2 [line 26], asks input and inserts the input value "13" into hash table.
- Taking choice 5 [line 28], it prints the current state of hash table. (ref. output file [line 2])
- Taking choice 2 [line 29], asks input and inserts the input value "20" into hash table.
- While inserting value "20", it requires **doubling** of the directory and **splitting** of the current bucket.
- Taking choice 5 [line 31], it prints the current state of hash table. (ref. output file [line 12])
- Taking choice 2 [line 32], asks input and inserts the input value "9" into hash table.
- While inserting value "9", it requires **splitting** of the current bucket.
- Taking choice 5 [line 34], it prints the current state of hash table. (ref. output file [line 25])
- Taking choice -1 [line 35], it exits the program.