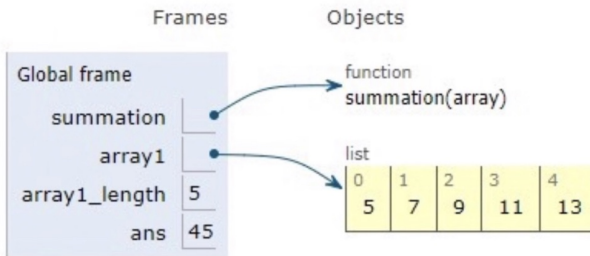Ex1.

Print output (drag lower right corner to resize)

Value in array: [5, 7, 9, 11, 13]
Length of integer array: 5
Summation of aray is: 45
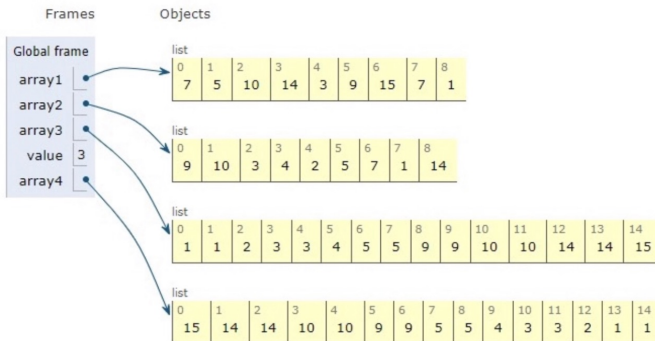
Frames   Objects

Global frame   function
                      summation(array)
  summation
     array1   list
array1_length 5 | 0 | 1 | 2 | 3 | 4 |
                      | 5 | 7 | 9 | 11 | 13 |
        ans 45

Code   https://onlinegdb.com/ccOunXH4mW

Ex 2

Print output (drag lower right corner to resize)

[15, 14, 14, 10, 9, 9, 5, 5, 4, 3, 3, 2, 1, 1]
New array3:
[1, 1, 2, 3, 3, 4, 5, 5, 9, 9, 10, 10, 14, 14, 15]
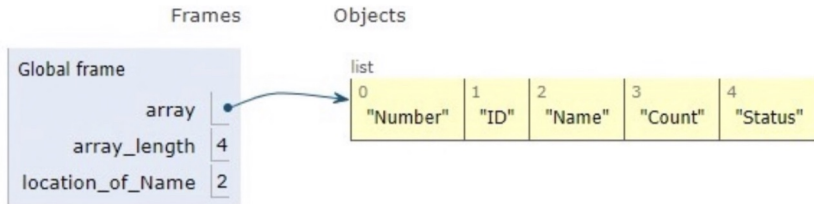New array4:
[15, 14, 14, 10, 10, 9, 9, 5, 5, 4, 3, 3, 2, 1, 1]

Frames   Objects

Global frame   list
  array1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
  array2 | 7 | 5 | 10 | 14 | 3 | 9 | 15 | 7 | 1 |
  array3
   value 3   list
  array4 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
                | 9 | 10 | 3 | 4 | 2 | 5 | 7 | 1 | 14 |

                list
                | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
                | 1 | 1 | 2 | 3 | 3 | 4 | 5 | 5 | 9 | 9 | 10 | 10 | 14 | 14 | 15 |

                list
                | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
                | 15 | 14 | 14 | 10 | 10 | 9 | 9 | 5 | 5 | 4 | 3 | 3 | 2 | 1 | 1 |

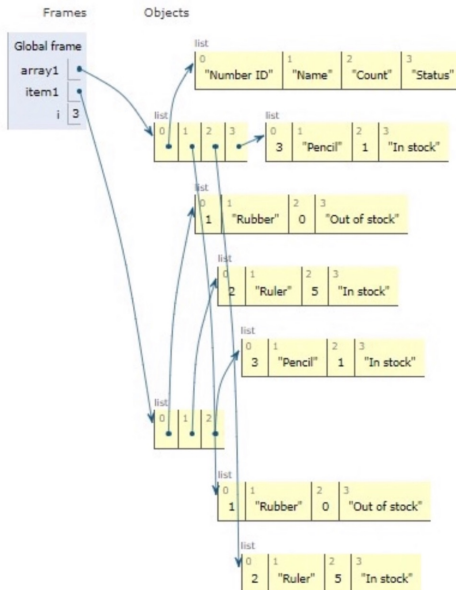Code   https://onlinegdb.com/cbacbCZ6x

Ex3

Print output (drag lower right corner to resize)

```
Length of array is :  4
The location of Name is :  2
Array = ['Number', 'ID', 'Name', 'Count', 'Status']
```

Frames   Objects

Global frame

list
| 0 | 1 | 2 | 3 | 4 |
| "Number" | "ID" | "Name" | "Count" | "Status" |

array •——→
array_length 4
location_of_Name 2

code https://onlinegdb.com/evCQcNmrSw

Ex4

Frames   Objects

Global frame

list
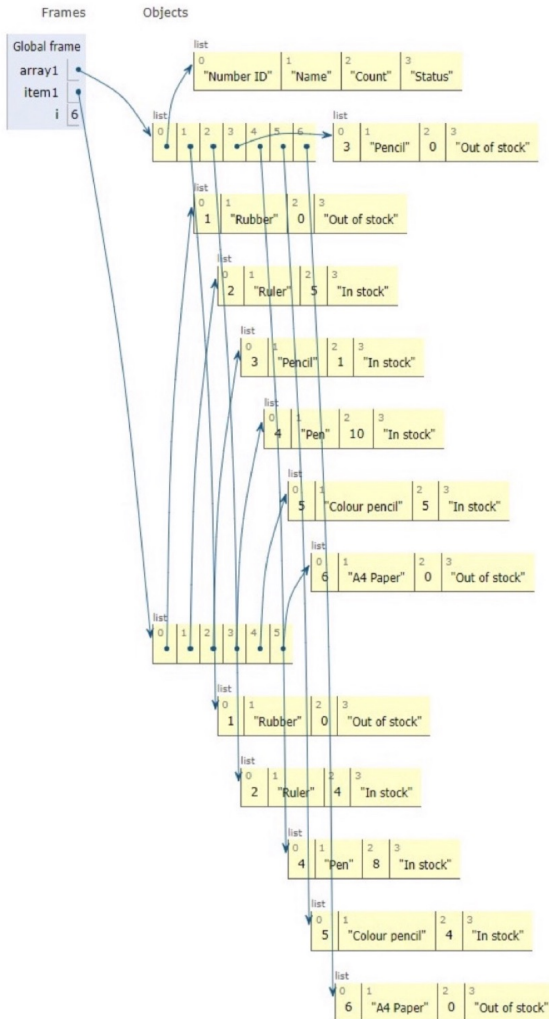| 0 | 1 | 2 | 3 |
| "Number ID" | "Name" | "Count" | "Status" |

array1 •
item1 •
i 3

Print output (drag lower right corner to resize)

```
Length of array1 is :  2
Array1 after appended:
['Number ID', 'Name', 'Count', 'Status']
[1, 'Rubber', 0, 'Out of stock']
[2, 'Ruler', 5, 'In stock']
[3, 'Pencil', 1, 'In stock']
New length of array1 is :  4
```

list
| 0 | 1 | 2 | 3 |

list
| 0 | 1 | 2 | 3 |
| 3 | "Pencil" | 1 | "In stock" |

list
| 0 | 1 | 2 | 3 |
| 1 | "Rubber" | 0 | "Out of stock" |

list
| 0 | 1 | 2 | 3 |
| 2 | "Ruler" | 5 | "In stock" |

list
| 0 | 1 | 2 | 3 |
| 3 | "Pencil" | 1 | "In stock" |

list
| 0 | 1 | 2 |

list
| 0 | 1 | 2 | 3 |
| 1 | "Rubber" | 0 | "Out of stock" |

list
| 0 | 1 | 2 | 3 |
| 2 | "Ruler" | 5 | "In stock" |

code https://onlinegdb.com/GlR6Isgf6

6×5

Frames · Objects

Global frame
array1
item1
i 6

list
| 0 | 1 | 2 | 3 |
| "Number ID" | "Name" | "Count" | "Status" |

list
| 0 | 1 | 2 | 3 | 4 | 5 | 6 |

list
| 0 | 1 | 2 | 3 |
| | 3 | "Pencil" | 0 | "Out of stock" |

list
| 0 | 1 | 2 | 3 |
| 1 | "Rubber" | 0 | "Out of stock" |

list
| 0 | 1 | 2 | 3 |
| 2 | "Ruler" | 5 | "In stock" |

list
| 0 | 1 | 2 | 3 |
| 3 | "Pencil" | 1 | "In stock" |

list
| 0 | 1 | 2 | 3 |
| 4 | "Pen" | 10 | "In stock" |

list
| 0 | 1 | 2 | 3 |
| 5 | "Colour pencil" | 5 | "In stock" |

list
| 0 | 1 | 2 | 3 |
| 6 | "A4 Paper" | 0 | "Out of stock" |

list
| 0 | 1 | 2 | 3 | 4 | 5 |

list
| 0 | 1 | 2 | 3 |
| 1 | "Rubber" | 0 | "Out of stock" |

list
| 0 | 1 | 2 | 3 |
| 2 | "Ruler" | 4 | "In stock" |

list
| 0 | 1 | 2 | 3 |
| 4 | "Pen" | 8 | "In stock" |

list
| 0 | 1 | 2 | 3 |
| 5 | "Colour pencil" | 4 | "In stock" |

list
| 0 | 1 | 2 | 3 |
| 6 | "A4 Paper" | 0 | "Out of stock" |

Print output (drag lower right corner to resize)

```
Length of array1 is : 2
Array1 after appended:
['Number ID', 'Name', 'Count', 'Status']
[1, 'Rubber', 0, 'Out of stock']
[2, 'Ruler', 5, 'In stock']
[3, 'Pencil', 1, 'In stock']
[4, 'Pen', 10, 'In stock']
[5, 'Colour pencil', 5, 'In stock']
[6, 'A4 Paper', 0, 'Out of stock']
New length of array1 is :  7


Array where status = In stock
['Number ID', 'Name', 'Count', 'Status']
[2, 'Ruler', 5, 'In stock']
[3, 'Pencil', 1, 'In stock']
[4, 'Pen', 10, 'In stock']
[5, 'Colour pencil', 5, 'In stock']


Array where status = Out of stock
['Number ID', 'Name', 'Count', 'Status']
[1, 'Rubber', 0, 'Out of stock']
[6, 'A4 Paper', 0, 'Out of stock']


Remaining items:
['Number ID', 'Name', 'Count', 'Status']
[1, 'Rubber', 0, 'Out of stock']
[2, 'Ruler', 4, 'In stock']
[3, 'Pencil', 0, 'Out of stock']
[4, 'Pen', 8, 'In stock']
[5, 'Colour pencil', 4, 'In stock']
[6, 'A4 Paper', 0, 'Out of stock']
```

Code   https://onlinegdb.com/ZPqXcrrsC