**ARRAYs**:

|  |
| --- |
| from array import\* |
|  |  |
|  | # vals = array('i',[5,9,-8,4,2]) |
|  |  |
|  | # print(vals.buffer\_info()) |
|  | # print(vals.typecode) |
|  | # vals.reverse() |
|  | # |
|  | # for i in range(5): |
|  | # for i in range(len(vals)): |
|  | # for e in vals: |
|  | # print(e) |
|  |  |
|  |  |
|  |  |
|  | # vals = array('u',['a','e','i']) |
|  | # |
|  | # |
|  | # for e in vals: |
|  | # print(e) |
|  |  |
|  |  |
|  | # vals = array('i',[5,9,8,4,2]) |
|  | # newArr = array(vals.typecode, (a\*a for a in vals)) |
|  | # |
|  | # for e in newArr: |
|  | # print(e) |
|  |  |
|  |  |
|  | vals = array('i',[5,9,8,4,2]) |
|  | newArr = array(vals.typecode, (a\*a for a in vals)) |
|  |  |
|  | i = 0 |
|  |  |
|  | while i<len(newArr): |
|  | print(newArr[i]) |
|  | i+=1 |

Types of array created by numpy:

|  |
| --- |
| from numpy import \* |
|  |  |
|  | # arr = array([1,2,3,4,5],float) |
|  | # |
|  | # print(arr.dtype) |
|  | # print(arr) |
|  |  |
|  | # arr = linspace(0,15) |
|  | # arr = arange(1,15,2) |
|  |  |
|  | # arr = logspace(1,40,5) |
|  | # print('%.2f' %arr[4]) |
|  |  |
|  | arr = ones(5,int) |
|  | print(arr) |