In [ ]:

```
#quest1
from array import *

def arry():
 #from array import all of the functions
 arr=array('i',[])
 n=int(input("saisir le nombre d'elments du tableau"))
 for i in range (n):
  x=int(input("saisir le nombre"))
  arr.append(x)
 return(arr)

op=arry()
liste=op.tolist()
print(liste)
```

In [ ]:

```
#quest2
from numpy import array
matrix=[]
rownb=int(input("print out the number of rows"))
columnb=int(input("print out the number of columns"))
for i in range(rownb):
 row=[]
 for j in range (columnb) :
  ip=int(input("Enter the number"))
  row.append(ip)
  matrix.append(row)
aar=array(matrix)
print(aar.trace())
```

In [ ]:

```
#quest3
from array import *

def arry():
 #from array import all of the functions
 arr=array('i',[])
 n=int(input("saisir le nombre d'elments du tableau"))
 x=int(input("saisir un entier "))
 for i in range (n):
  arr.append(x)
 return(arr)

op=arry()
liste=op.tolist()
x=int(input("saisir un entier "))
for i in liste :
 if (i>x):
    print(i)
```

In [ ]:

```
#quest4
from numpy import array
from array import *

def arry():
 arr=array('i',[])
 n=int(input("saisir le nombre d'elments du tableau"))
 for i in range (n):
  x=int(input("saisir le nombre"))
  arr.append(x)
 liste=arr.tolist()
addition=[]
A=arry()
B=arry()
if len (A)==len(B):
    for i in A:
     for j in B:
      addition=A+B
c=array(addition)
print(c)
```

In [ ]:

```
#quest5
import numpy as np
print("Original matrix:\n")
X = np.random.rand(5, 10)
print(X)
print("\nSubtract the mean of each row of the said matrix:\n")
Y = X - X.mean(axis=1, keepdims=True)
print(Y)
```