Task 1	**What will be printed on the screen**
| | ```
import numpy as np
list1 = [2,3,4,5,10]
list2 = [True,True,False,False,True]
x1 = np.array(list1)
y1 = np.array(list2)
z1 = x1[y1]
print (z1)
``` |
	Also, what will be the output when
	(i) list1 = [2,3,1,5], list2=[True,True,True,True]
	(ii) list1 = [2,3,1,5], list2=[False,False,False,False]
	(iii) list1 = [2,3,1,5], list2=[True,False,True,False]
	(iv) list1 = [10], list2=[True]
	(v) list1 = [6], list2=[False]

Task 2	**What will be printed on the screen**
| | ```
import numpy as np
list1 = [4,10,2,15,6,3]
y = 4
x1 = np.array(list1)
y1 = x1 > y
z1 = x1[y1]
print(z1)
y2 = x1 < y
z2 = x1[y2]
print(z2)
y3 = x1==y
z3 = x1[y3]
print(z3)
``` |
	Also, what will be the output when
	(i)list1 = [3,5,4,5,3,6], y=3
	(ii)list1 = [3,5,4,5,3,6], y=4
	(iii)list1 = [3,5,4,5,3,6], y=5
	(iv)list1 = [4,4], y=3
	(v)list1 = [4,4], y=4

Task 3	**The marks of an examination have been given as a list. The students who score 75 or more get A, 60 or more get B and the rest get C. Given the list of students how many students get grade A, B and C.**	
Test Cases	**Input**	**Expected Output**
	[50,70,80,90,55,65,75,80,85]	A:5, B:2, C:2
	[51,52,61,65,50]	A:0, B:2, C:3
	[81]	A:1, B:0, C:0

Task 4	The marks of an examination have been given as a list. The students who got marks more than the mean get A grade while the rest get B grade. Given the list of students how many students get grade A and B.	
Test Cases	**Input**	**Expected Output**
	[50,70,80,90,55,65,75,80,85]	A:5, B:4
	[51,52,61,65,50]	A:2, B:3
	[81,90,88,87,55]	A:4, B:1

Task 5	The daily sales for week1 is given in list1 and week2 in list2. Print the following - How many days did week1 have more than sales than week2 - How many day did week2 have more sales than week1 - How many did were the sales the same	
Test Cases	**Input**	**Expected Output**
	[45,47,50,41,55,61,66], [37,48,44,41,57,61,64]	Week1 more : 3 Week2 more : 2 Equal : 2
	[12,15,12,15,21,22,14], [12,15,12,15,21,22,14]	Week1 more : 0 Week2 more : 0 Equal : 7