



COMSATS Institute of Information Technology Abbottabad
Department of Computer Science

Assignment No. 1
Algorithms and Data Structures

Class: BSE-3B

Total Marks: 20

Q1. Find all those numbers which are divisible by 3 and 5 in each row. Display the result in the row wise format. You can suggest any numbers in the matrix.

34	56	15	33	30	??
60	35	67	23	54	??
67	42	75	76	90	??
56	78	14	79	30	??

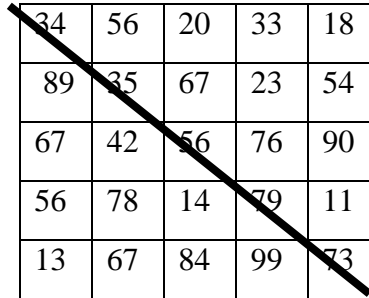
Q2. Find out the sum of –ve numbers in each row and each column and also find out the largest number in –ve of each row and each column.

-34	56	20	33	-18	-52
89	35	67	-2	-54	-56
44	42	56	-76	90	??
-56	78	-14	79	11	??
-100	??	??	??	??	

Q3. Find the maximum number in each row and minimum in each column in the given matrix below. You can use the variables called **min**, **max** to store the minimum and maximum numbers for each row and column. Display the result in the following format.

34	56	20	33	18	Max
89	35	67	23	54	56
67	42	56	76	90	89
56	78	14	79	11	90
					79
Min	34	35	14	23	11

- Q4. Declare a 2-Dimensional array of integer numbers. The array consists of 5 rows and 5 columns. Write a program to find out the sum of all elements of 2D-array above and below the diagonal shown in the figure:



34	56	20	33	18
89	35	67	23	54
67	42	56	76	90
56	78	14	79	11
13	67	84	99	73

- Q5. Write a program to sort a two dimensional array i.e.3x3 in an ascending order
- Q6. Write a program to multiply a two dimensional array i.e.3x3 and store the result in the other array and finally display the resultant matrix.
- Q7. Write a program to display the prime numbers in 3x3 array.
- Q8. Write a program to delete a specific column/row upon user choice and display rest of the columns/rows in the matrix.