Assignment for the First sem C programming

Write C programs for the following and submit by 30th March

Programs can be better hand written. Do not Copy.

For every selected question, write the number given here, write the question and then answer

**Section A (Answer for at least 8 mark from this section)**

1 to sum up the selected members of the 2 Dimensional Array (TDA) 1

2 to check for palarray 1

3 to swap the smallest and biggest elems in a tda and to swap them 1

4 given an array to print the sum of digits of each number in the array 2

5 check the armstrong numbers, mirror numbers in the array 2

6 to print the grand sum of digits of the numbers in a given array 2

7 to rotate the elements of the array to right or to left! 2

8 to swap 2 specified rows of the tda 2

9 to implement the 15 puzzle 2

10 reflect a matrix on bottom line and left edge separately 2

11. program to print the row number of the biggest elem in each row 2

**Section B (Answer for at least 7 mark from this section)**

12 to draw sudokku board 3

13 given a tda (2 dimensional Array), wap to print the rowsums, colsums separately and to give the grand sum 3

14 draw the plan of your home using functions for horline, vertline of 4

specified length, specified height and x,y location

**Section C (Answer for any 10 mark from this section)**

15 to print the following shapes off/from a 9x9square matrix. Plus sign, tick mark

hockey stick, spoon, inverted U, inverted C of desirable proportions 5

16. given the marks of 10 students in 6 subjects, find 5

a. the sum of marks of each student avg mark as integer, highest mark, lowest mark

b. class average in each subject as integer, highest and lowest class avg

c. number of pass in each subject

d. average mark of those passed in each subject

17 to do a steering operation on the tda outer elements 5

Balance section for those interested

// to search for an element in the tda and to specify the row and col

// positions of it

// draw the snake and ladder board

// to sort the elements in a tda

// to make a common fucntion, which will print any matrix given the col size

// and number of rows

// draw a hocky stick/ or spoon/tick mark, wine glass using a 9x9 matrix of chars

8 to rotate a matrix as desired

11 modify the house program to show the wall thickness,windows and doors

17. to get the rank sum value of a given word

14.to print the matrix by a function

4 to swap 2 specified colums of the tda.

13 program to print the column number of the biggest elem in that row