DATA STRUCTURES

BATCH – B
[WEDNESDAY FEBRUARY 24, 2020: 3:00 PM – 6:00 PM]

ASSIGNMENT – 5   CODE: assign05

INSTRUCTIONS: [Total Marks: 20]
  i)   Read all assignments and each problem has to be answered in the same c file.
  ii) Create a .c file following the file name convention: abc-assign05.c
       Where abc is your roll number and assign05 is the assignment code
  iii) Strictly follow the file name convention and do not use scanf()
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PROBLEMS:

1) **[Marks: 10 marks]**

   Given a Binary Heap and a new element to be added to this Heap. The
   task is to insert the new element to the Heap maintaining the properties of
   Heap.:
   A = { 1, 3, 6, 5, 9, 8 }

   **Insert new element as -2. Construct a min heap using array
   implementation**.

2) **[Marks: 10 marks]**

   Given a Binary Heap and an element present in the given Heap. The task
   is to delete max element from this Heap maintaining the properties of
   Heap. Do it iteratively and give a descending order of elements.

   Array A=25, 14, 16, 13, 10, 8, 12