## Assignment-5

Q1 Write the function for insertion sort.

Ans Function:

vold Insertion sort (intarray[], Int n)

int i, element, f;
for (l=1; i < n, i+1) { element = array[l=1, j=i-1; the move elements of arr [o., i-1]; that are greates than key by one position  $\times$  | while  $(j \times = 0 + 4 \arcsin j)$ ;
relement) {
 array[j+1] = array[j];

array(j+1) = array(j) j = j-1;

3 array[j+1]= element;

3

2 > Write a function to find the maximum element in the stack.

-> "Push operation push (intedata) i

11 Declare max variable int man = data;

of (! man st. is EMPTY () & f man < mans & man st. peek ();

man = man st. peek ();

St. push (dafa); maxst, push (max);

4

herite a function to find the minimum element in the stack. dol

Programs Stack push operasson
public void push (int data) {

1/Assign the value we need to push int min = data;

11 If Min8fack Is not empty 4 than the value from the top of statement If (! min St. 95 Empty () & I min > minst. next; If the ne assign the top value of statem min = min st. peek ();

St. push (dasa); min St. push (min).