**4.LARGEST ELEMENT IN ARRAY**

**RECURSIVE:-**

#include <stdio.h>

int large(int[], int, int);

int main()

{

int size;

int largest;

int list[20];

int i;

printf("Enter size of the list:");

scanf("%d", &size);

printf("Printing the list:\n");

for (i = 0; i < size ; i++)

{

list[i] = rand() % size;

printf("%d \t", list[i]);

}

if (size == 0)

{

printf("Empty list\n");

}

else

{

largest = list[0];

largest = large(list, size - 1, largest);

printf("\nThe largest number in the list is: %d\n", largest);

}

}

int large(int list[], int position, int largest)

{

if (position == 0)

return largest;

if (position > 0)

{

if (list[position] > largest)

{

largest = list[position];

}

return large(list, position - 1, largest);

}

}

