1.Write a c programe to find maximum and minimum element in an array.

```
#include <stdio.h>

Int main()
 {
  Int n;
   Printf(“Enter the size of the array: “);
   Scanf(“%d”, &n);

   Int arr[n];

   Printf(“Enter %d elements:\n”, n);
   For (int I = 0; I < n; i++) {
      Scanf(“%d”, &arr[i]);
   }

   Int max = arr[0];
   Int min = arr[0];

   For (int I = 1; I < n; i++) {
      If (arr[i] > max) {
         Max = arr[i];
      }
      If (arr[i] < min) {
         Min = arr[i];
      }
   }
```

```
   Printf(“Maximum element: %d\n”, max);
   Printf(“Minimum element: %d\n”, min);

   Return 0;
}
```

2.write the program for finding largest of three numbers in all the methods.

(Using Ternary, elseif, nested if)

```
#include <stdio.h>

Int main()
 {
   Int num1, num2, num3;

   Printf(“Enter three numbers: “);
   Scanf(“%d %d %d”, &num1, &num2, &num3);

   Int largest1 = (num1 > num2) ? ((num1 > num3) ? num1 : num3) : ((num2 > num3) ? num2 : num3);
   Int largest2 = (num1 > num2) ? ((num2 > num3) ? num2 : num3) : ((num1 > num3) ? num1 : num3);
   Int largest3 = (num2 > num1) ? ((num2 > num3) ? num2 : num3) : ((num1 > num3) ? num1 : num3);

   Printf(“Three largest numbers using ternary operators: %d, %d, %d\n”, largest1, largest2, largest3);

   Int largest_else_if1, largest_else_if2, largest_else_if3;

   If (num1 >= num2 && num1 >= num3) {
      Largest_else_if1 = num1;
      Largest_else_if2 = (num2 >= num3) ? num2 : num3;
```

```
    Largest_else_if3 = (num2 >= num3) ? num3 : num2;
  } else if (num2 >= num1 && num2 >= num3) {
    Largest_else_if1 = num2;
    Largest_else_if2 = (num1 >= num3) ? num1 : num3;
    Largest_else_if3 = (num1 >= num3) ? num3 : num1;
  } else {
    Largest_else_if1 = num3;
    Largest_else_if2 = (num1 >= num2) ? num1 : num2;
    Largest_else_if3 = (num1 >= num2) ? num2 : num1;
  }
 Printf("Three largest numbers using else-if statements: %d, %d, %d\n", largest_else_if1, largest_else_if2,
largest_else_if3);

  Int largest_nested_if1, largest_nested_if2, largest_nested_if3;

  If (num1 >= num2) {
    If (num1 >= num3) {
      Largest_nested_if1 = num1;
      Largest_nested_if2 = (num2 >= num3) ? num2 : num3;
      Largest_nested_if3 = (num2 >= num3) ? num3 : num2;
    } else {
      Largest_nested_if1 = num3;
      Largest_nested_if2 = num1;
      Largest_nested_if3 = num2;
    }
  } else {
    If (num2 >= num3) {
      Largest_nested_if1 = num2;
      Largest_nested_if2 = (num1 >= num3) ? num1 : num3;
```

```
        Largest_nested_if3 = (num1 >= num3) ? num3 : num1;
    } else {
        Largest_nested_if1 = num3;
        Largest_nested_if2 = num2;
        Largest_nested_if3 = num1;
    }
  }
  Printf("Three largest numbers using nested if statements: %d, %d, %d\n", largest_nested_if1,
largest_nested_if2, largest_nested_if3);

  Return 0;
}
```