Dnyanada Dhore NC4 Batch

1. Write a program in C# Sharp to find maximum and minimum elements in an array.

Find maximum and minimum element in an array: _____ Input the number of elements to be stored in the array:2 Input 2 elements in the array: element - 0:20 element - 1:25 Maximum element is: 25 Minimum element is: 20 Code:----using System; public class HelloWorld public static void Main(string[] args) int[] arr1= new int[100]; int i, mx, mn, n; Console.Write("\n\nFind maximum and minimum element in an array :\n"); Console.Write("-----\n"); Console. Write ("Number of elements to be stored in the array:"); n= Convert.ToInt32(Console.ReadLine()); Console.Write("Input {0} elements in the array :\n",n); for(i=0;i< n;i++){ Console.Write("element - {0}:",i); arr1[i] = Convert.ToInt32(Console.ReadLine()); } mx = arr1[0];mn = arr1[0];for(i=1; i<n; i++) if(arr1[i]>mx) mx = arr1[i];if(arr1[i]<mn) mn = arr1[i];

```
Console.Write("Maximum element is: {0}\n", mx);
    Console.Write("Minimum element is : {0}\n", mn);
    }
}
                                                                         [] 6
                                                                                    Run
                                                                                                                                                                            Clear
          Main.cs
                                                                                              Output
                                                                                             ▲ mono /tmp/Bi70zIbKm6.exe
                     int[] arr1= new int[100]:
                                                                                              Find maximum and minimum element in an array :
  (
                    int i, mx, mm, n;
Console.Write("\n\nFind maximum and minimum element in an array :\\n");
                                                                                              Number of elements to be stored in the array:2
                                                                                            Input 2 elements in the array
                    Console.Write("Number of elements to be stored in the array:"); n= Convert.ToInt32(Console.ReadLine());
                                                                                              element - 0:25
element - 1:20
                    Console.Write("Input {0} elements in the array :\n",n);
for(i=0;i<n;i++)</pre>
                                                                                              Maximum element is : 25
                                                                                              Minimum element is : 20
                      Console.Write("element - {0}:",i);
                      arr1[i] = Convert.ToInt32(Console.ReadLine());
                    mn = arr1[0];
for(i=1; i<n; i++)
                     if(arr1[i]>mx)
                       mx = arr1[i];
        24
         25
26
                     if(arr1[i]<mn)
                         mn = arr1[i];
```

Find maximum occurring character in a string :

Input the string: Welcome to welcome

The Highest frequency of character 'e' is appearing for number of times

: 2

```
Code:----
using System;
public class HelloWorld
  public static void Main(string[] args)
  string str;
  int[] ch = new int[255];
  int i = 0, max,l;
  int ascii;
    Console.Write("\n\nFind maximum occurring character in a string :\n");
    Console.Write("-----
   Console.Write("Input the string: ");
    str = Console.ReadLine();
   I=str.Length;
```

```
for(i=0; i<255; i++) {
       ch[i] = 0;
   }
      i=0;
    while(i<I)
       ascii = (int)str[i];
       ch[ascii] += 1;
       j++;
    }
    max = 0;
    for(i=0; i<255; i++)
     if(i!=32)
       if(ch[i] > ch[max])
           max = i;
   }
   Console.Write("The Highest frequency of character '{0}' is appearing for number of times : {1}
\n\n", (char)max, ch[max]);
   }
                                                            [] G Run
                                                                               Output
                                                                                                                                              Clear
        1 using System;
                                                                               nono /tmp/Bi70zTbKm6.exe
        2 public class HelloWorld
                                                                              Find maximum occurring character in a string :
                                                                              Input the string : Welcome
             public static void Main(string[] args)
                                                                              The Highest frequency of character 'e' is appearing for number of times : 2
              int[] ch_fre = new int[255];
int i = 0, max,1;
 (8)
              int ascii;
               Console.Write("\n\nFind maximum occurring character in a string :\n");
               Console.Write("Input the string : ");
str = Console.ReadLine();
               l=str.Length;
              for(i=0; i<255; i++) //Set frequency of all characters to 0
                 ch_fre[i] = 0;
              /* Read for frequency of each characters */
              while(i<1)
```

3. find the position of a specified word in a given string.

Sample Example:

Text: The quick brown fox jumps over the lazy dog.

```
Position:
                                    2
                                                3
                                                                       5
                                                                                   6
                                                                                               7
                                                                                                           8
                                                                                                                       9
Sample Output:
input: fox
Position of the word 'fox' in the said string: 4
code:----
using System;
public class HelloWorld
   public static void Main(string[] args)
    string str1 = "The quick brown fox jumps over the lazy dog.";
    Console.WriteLine("Original string: " + str1);
    Console.WriteLine("Position of the word 'fox' in the said string: " + test(str1, "fox"));
    Console.WriteLine("Position of the word 'The' in the said string: " + test(str1, "The"));
    Console.WriteLine("Position of the word 'lazy' in the said string: " + test(str1, "lazy"));
    public static int test(string text, string word)
    return Array.IndexOf(text.Split(''), word)+1;
    }
                                                                                                                                                    Clear
        1 using System;
                                                                                 mono /tmp/Bi70zIbKm6.exe
                                                                                 Original string: The quick brown fox jumps over the lazy dog. Position of the word 'fox' in the said string: 4 Position of the word 'The' in the said string: 1 Position of the word 'lazy' in the said string: 8
        2 public class HelloWorld
             public static void Main(string[] args)
              string str1 = "The quick brown fox jumps over the lazy dog.";
Console.WriteLine("Original string: " + str1);
Console.WriteLine("Position of the word 'fox' in the said string: " + test
                  (str1, "fox")):
 (3)
              Console.WriteLine("Position of the word 'The' in the said string: " + test
              (str1, "The"));
Console.WriteLine("Position of the word 'lazy' in the said string: " + test
                 (str1, "lazy"));
               public static int test(string text, string word)
               return Array.IndexOf(text.Split(' '), word)+1;
       16
17 }
```