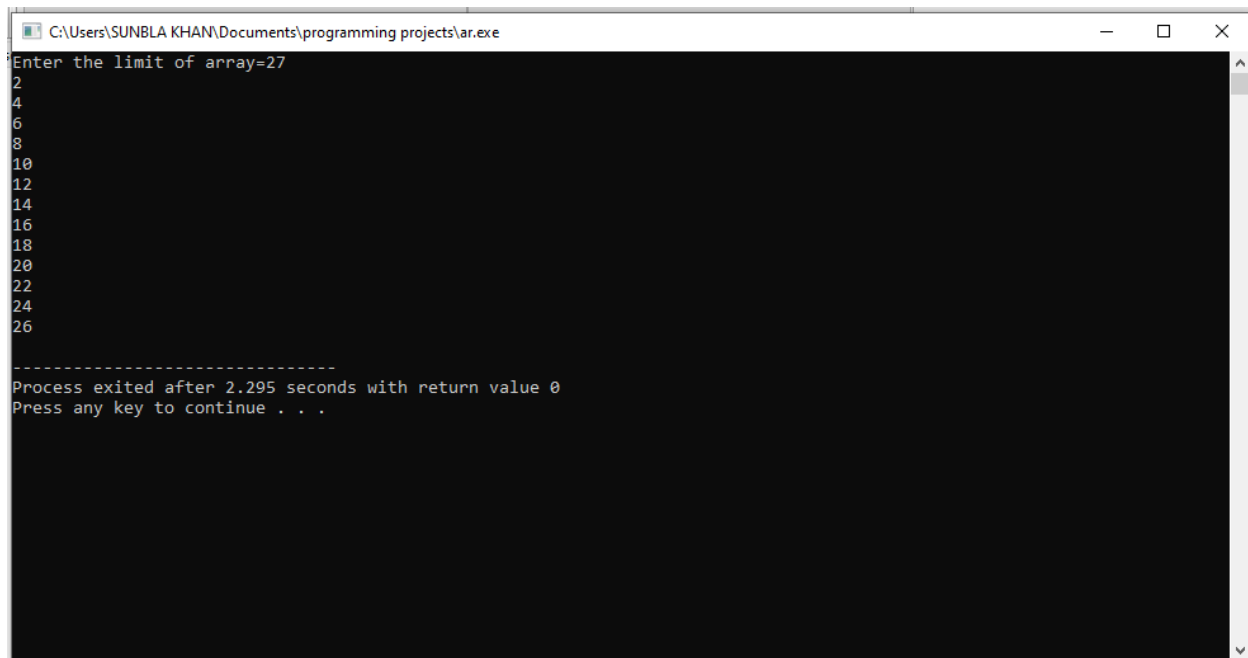


Assignment

1. Write a C program that store first n Even numbers in an array, where n is equal to the value of last two digits of your roll number.

```
1  #include <iostream>
2
3  /* run this program using the console pauser or add your own getch, system("pause") or input loop */
4
5  int main() {
6
7      int i, num;
8      printf("Enter the limit of array=");
9      scanf("%d", &num);
10     for(i=1;i<=num;i++)
11     {
12         if(i%2==0)
13         {
14             printf("%d\n", i);
15         }
16     }
17     return 0;
18 }
```



```
C:\Users\SUNBLA KHAN\Documents\programming projects\ar.exe
Enter the limit of array=27
2
4
6
8
10
12
14
16
18
20
22
24
26
-----
Process exited after 2.295 seconds with return value 0
Press any key to continue . . .
```

2. Write a program that takes 10 numbers as array input. First it should print the cubes of those numbers.

```
9 int main() {  
0     int num, i, array[10];  
1     for(i=0;i<10;i++)  
2     {  
3         printf("\nArray[%d]=\n", i);  
4         scanf("%d", &array[i]);  
5         printf("Cube= %d\n", array[i]*array[i]*array[i]);  
6     }  
7  
8  
9  
0     return 0;  
1 }
```

```
C:\Users\SUNBLA KHAN\Documents\programming projects\Array&String.exe  
4  
Cube= 64  
Array[4]=  
5  
Cube= 125  
Array[5]=  
6  
Cube= 216  
Array[6]=  
7  
Cube= 343  
Array[7]=  
8  
Cube= 512  
Array[8]=  
9  
Cube= 729  
Array[9]=  
10  
Cube= 1000  
-----  
Process exited after 11.45 seconds with return value 0  
Press any key to continue . . .
```

3. Make a string array with five elements. Sort the array and display the output.

```
15 int main() {
16     char str[5][50];
17     int i;
18     printf("Enter 5 words :\n");
19     // Getting strings input
20     for (i = 0; i < 5; i++) {
21         printf("%d-", i);
22         gets(str[i]);
23     }
24     int j;
25     char temp[50];
26     // storing strings in the scending alphabetical order
27     for (i = 0; i < 5; i++) {
28         for (j = i + 1; j < 5; j++) {
29             if (strcmp(str[i], str[j]) > 0) {
30                 strcpy(temp, str[i]);
31                 strcpy(str[i], str[j]);
32                 strcpy(str[j], temp);
33             }
34         }
35     }
36
37     printf("\nIn the ascending alphabetical order: \n");
38     printf("-----\n");
39     for (i = 0; i < 5; i++) {
40         puts(str[i]);
41     }
42
43
44     return 0;
45 }
```

C:\Users\SUNBLA KHAN\Documents\programming projects\ar.exe

```
Enter 5 words :
0-Sunbla Khan
1-Laiba Khan
2-Inayat Fatima
3-Fiza Shabbir
4-Warda Khan

In the ascending alphabetical order:
-----
Fiza Shabbir
Inayat Fatima
Laiba Khan
Sunbla Khan
Warda Khan
-----
Process exited after 54.41 seconds with return value 0
Press any key to continue . . .
```

4. Write a program that takes 10 numbers (double) as array input. Perform the following tasks.

a. Sort numbers in descending orders.

b. Find Minimum Number

c. Find count of even number

d. Find count of odd number

e. Find count of number divisible by 2.

```

1  #include <iostream>
2  int main() {
3      int i, j, a, n=5;
4      int array[5];
5      for(i=1; i<=5; i++)
6      {
7          printf("Enter the number %d=", i);
8          scanf("%d", &array[i]);
9      }
10
11     /*printf("Enter the numbers \n");
12     for (i = 0; i < n; ++i)
13         scanf("%d", &number[i]);*/
14
15     /* sorting begins ... */
16
17     for (i = 0; i <= n; ++i)
18     {
19         for (j = i + 1; j <= n; ++j)
20         {
21             if (array[i] < array[j])
22             {
23                 a = array[i];
24                 array[i] = array[j];
25                 array[j] = a;
26             }
27         }
28     }
29
30     printf("The numbers arranged in descending order are given below\n");
31
32     for (i = 0; i <= n; ++i)
33     {
34         printf("%d\n", array[i]);
35     }

```

C:\Users\SUNBLA KHAN\Documents\programming projects\arraystringQ4.exe

```

Enter the number 1=4
Enter the number 2=3
Enter the number 3=2
Enter the number 4=6
Enter the number 5=7
The numbers arranged in descending order are given below
6
4
3
2
1
-----
Process exited after 3.699 seconds with return value 0
Press any key to continue . . .

```

```

1  #include <iostream>
2  int main() {
3      int i, size=10, minimum, location;
4      int array[10];
5      for(i=1;i<=10;i++)
6      {
7          printf("Enter the number %d=",i);
8          scanf("%d", &array[i]);
9      }
10     for (i = 1; i < size; i++)
11     {
12         if (array[i] < minimum)
13         {
14             minimum = array[i];
15             location = i+1;
16         }
17     }
18     printf("Minimum element is present at location %d and its value is %d.\n", location, minimum);
19
20     return 0;
21 }
22
23
24

```

C:\Users\SUNBLA KHAN\Documents\programming projects\arraystringQ4.exe

```

Enter the number 1=2
Enter the number 2=3
Enter the number 3=4
Enter the number 4=5
Enter the number 5=6
Enter the number 6=4
Enter the number 7=1
Enter the number 8=2
Enter the number 9=4
Enter the number 10=6
Minimum element is present at location 1 and its value is 1.

-----
Process exited after 6.18 seconds with return value 0
Press any key to continue . . .

```

```

1  #include <iostream>
2  int main() {
3      int i, size=10 ;
4      int array[10];
5      for(i=1;i<=10;i++)
6      {
7          printf("Enter the number %d=",i);
8          scanf("%d", &array[i]);
9      }
10     printf("---output-----");
11     for (i = 1; i < size; i++)
12     {
13         if (array[i] %2== 0)
14         {
15             printf("%d\n", array[i]);
16         }
17     }
18
19     return 0;
20 }
21
22
23

```

C:\Users\SUNBLA KHAN\Documents\programming projects\arraystringQ4.exe

```

Enter the number 1=1
Enter the number 2=2
Enter the number 3=2
Enter the number 4=3
Enter the number 5=4
Enter the number 6=5
Enter the number 7=6
Enter the number 8=7
Enter the number 9=8
Enter the number 10=9

```

---output-----

```

2
2
4
6
8

```

Process exited after 7.865 seconds with return value 0
Press any key to continue . . .

```

1  #include <iostream>
2  int main() {
3      int i, size=10 ;
4      int array[10];
5      for(i=1;i<=10;i++)
6      {
7          printf("Enter the number %d=",i);
8          scanf("%d", &array[i]);
9      }
10     printf("\n---output-----\n");
11     for (i = 1; i <= size; i++)
12     {
13         if (array[i] %2!= 0)
14         {
15             printf("%d\n", array[i]);
16         }
17     }
18
19     return 0;
20 }
21
22
23

```

C:\Users\SUNBLA KHAN\Documents\programming projects\arraystringQ4.exe

```

Enter the number 1=1
Enter the number 2=2
Enter the number 3=3
Enter the number 4=4
Enter the number 5=5
Enter the number 6=6
Enter the number 7=7
Enter the number 8=8
Enter the number 9=9
Enter the number 10=10

```

---output-----

```

1
3
5
7
9

```

Process exited after 7.891 seconds with return value 0
Press any key to continue . . .

5. Write a program that calculates the length of string. (use mystringlength.c file)

```
1  #include <iostream>
2  #include <string.h>
3  int main() {
4      char word[50];
5      int len;
6      printf("Enter the string:");
7      gets(word);
8      len=strlen(word);
9      printf("length=%d", len);
10 }
```

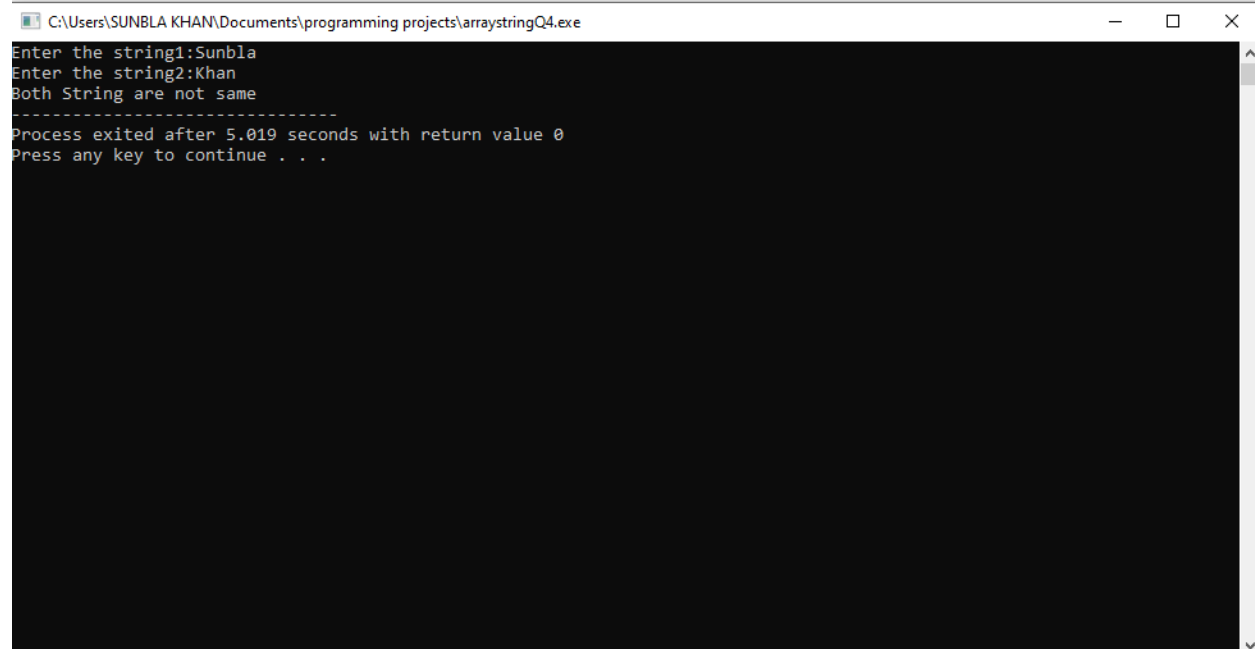
C:\Users\SUNBLA KHAN\Documents\programming projects\arraystringQ4.exe

```
Enter the string:Sunbla Khan
length=11
-----
Process exited after 4.319 seconds with return value 0
Press any key to continue . . .
```

6. Write a program that finds whether two strings, myStr1 and myStr2 are exactly equal or

not. (use mystringcompare.c)

```
1  #include <iostream>
2  #include <string.h>
3  int main() {
4      char word1[50], word2[50];
5
6      printf("Enter the string1:");
7      gets(word1);
8      printf("Enter the string2:");
9      gets(word2);
10     if(strcmp(word1,word2)==0)
11     {
12         printf("both string are same");
13     }
14     else
15         printf("Both String are not same");
16 }
```

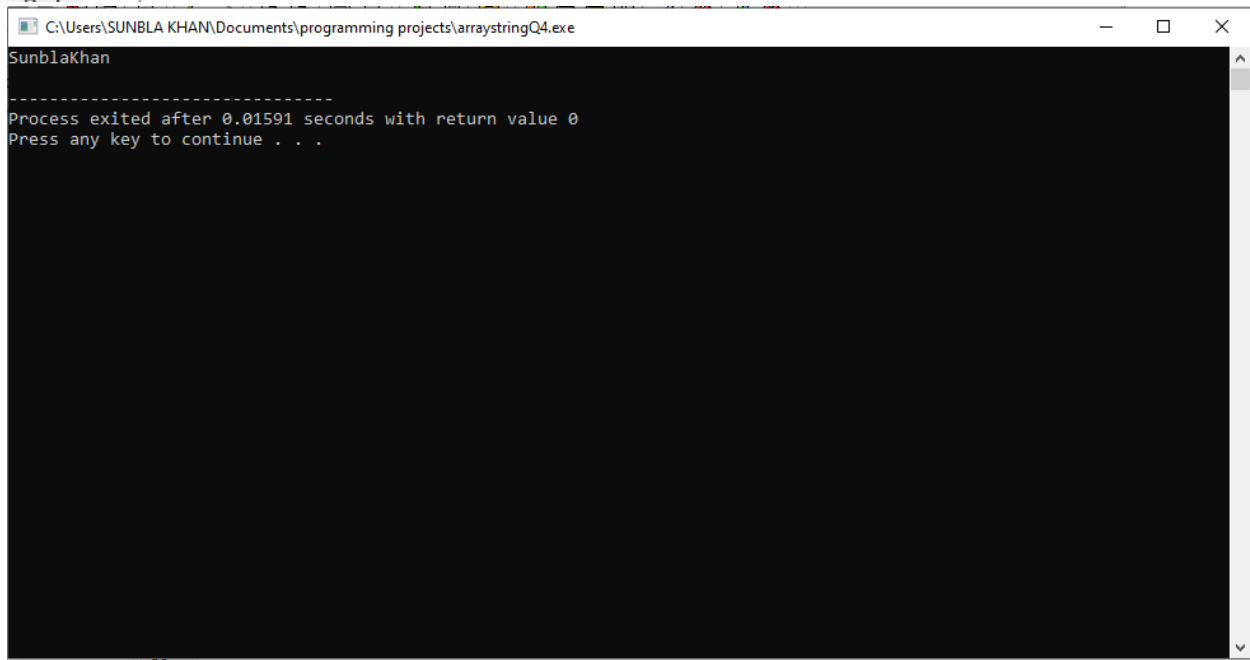


```
C:\Users\SUNBLA KHAN\Documents\programming projects\arraystringQ4.exe
Enter the string1:Sunbla
Enter the string2:Khan
Both String are not same
-----
Process exited after 5.019 seconds with return value 0
Press any key to continue . . .
```

7. Write a program that concatenates two strings i.e. myStr1 and myStr2 are the two strings and after concatenation myStr1 will have myStr2 joined/concatenated immediately after

it. (use mystringconcat.c)

```
1  #include <iostream>
2  #include <string.h>
3  int main() {
4      char word1[50]="Sunbla", word2[50]="Khan";
5      strcat(word1,word2);
6      puts(word1);
7  }
```



```
C:\Users\SUNBLA KHAN\Documents\programming projects\arraystringQ4.exe
SunblaKhan
-----
Process exited after 0.01591 seconds with return value 0
Press any key to continue . . .
```

8. Write a program that copies one string into another string. (use mystringcopy.c)

Uppercase

```
1  #include <iostream>
2  #include <string.h>
3  int main() {
4      char word1[50], word2[50]="Sunbla Khan";
5      strcpy(word1,word2);
6      puts(word1);
7
8  }
```

C:\Users\SUNBLA KHAN\Documents\programming projects\arraystringQ4.exe

Sunbla Khan

Process exited after 0.01447 seconds with return value 0
Press any key to continue . . .

9. uppercase.c: This program should input a line from user and print it in uppercase.

```
1  #include <iostream>
2  #include <string.h>
3  int main() {
4      char word1[50]="Sunbla Khan";
5      strupr(word1);
6      puts(word1);
7  }
```

C:\Users\SUNBLA KHAN\Documents\programming projects\arraystringQ4.exe

SUNBLA KHAN

Process exited after 0.06588 seconds with return value 0
Press any key to continue . . .