

C programming Assignment 3

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C programming

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1.

```
the max num is 98
the min num is 11
PS C:\Users\User\Desktop\C\local\assignment-3-array-string-and-functions-supadhyaya3348-cloud\src> []
```

2.

```
PS C:\Users\User\Desktop\C\local\assignment-3-array-string-and-functions-supadhyaya3348-cloud\src> cd "c:\-3-array-string-and-functions-supadhyaya3348-cloud\src"
the original set of array10
20
30
40
50
the reversed array50
40
30
20
10
PS C:\Users\User\Desktop\C\local\assignment-3-array-string-and-functions-supadhyaya3348-cloud\src> []
```

3.

```
PS C:\Users\User\Desktop\C\local\assignment-3-array-string-and-functions-supadhyaya3348-cloud\src> cd "c:\-3-array-string-and-functions-supadhyaya3348-cloud\src"
the original array is: 1
2
5
8
4
the sorted array is: 1
2
4
5
8
PS C:\Users\User\Desktop\C\local\assignment-3-array-string-and-functions-supadhyaya3348-cloud\src> []
```

4.

```
-3-array-string-and-functions-supadhyaya3348-cloud\src" ; if ($?) { gcc q4.c -o q4
The largest element is: 98
The second largest element is: 89
PS C:\Users\User\Desktop\C\local\assignment-3-array-string-and-functions-supadhyaya3348-cloud\src> []
```

5.

```
Enter number of elements in first sorted array: 1
Enter elements of first array (sorted): 1
Enter number of elements in second sorted array: 1
Enter elements of second array (sorted): 1
Merged sorted array: 1 1
PS C:\Users\User\Desktop\C\local\assignment-3-array-string-and-functions-supadhyaya3348-cloud\src> []
```

6.

```
PS C:\Users\User\Desktop\C\local\assignment-3-array-string-and-functions-supadhyaya3348-cloud\src> cd "c:\3-array-string-and-functions-supadhyaya3348-cloud\src" ; if ($?) { gcc q6.c -o q6 } ; if (?) { .\q6 }
Enter a string: download
Length of the string: 8
PS C:\Users\User\Desktop\C\local\assignment-3-array-string-and-functions-supadhyaya3348-cloud\src>
```

7.

```
-3-array-string-and-functions-supadhyaya3348-cloud\src" ; if (?) { gcc q7.c -o q7 } ; if (?) { .\q7 }
Enter a string: sameera
Reversed string: areemas
PS C:\Users\User\Desktop\C\local\assignment-3-array-string-and-functions-supadhyaya3348-cloud\src>
```

8.

```
-3-array-string-and-functions-supadhyaya3348-cloud\src" ; if (?) { gcc q8.c -o q8 } ; if (?) { .\q8 }
Enter a string: dod
The string is a palindrome.
PS C:\Users\User\Desktop\C\local\assignment-3-array-string-and-functions-supadhyaya3348-cloud\src>
```

9.

```
-3-array-string-and-functions-supadhyaya3348-cloud\src" ; if (?) { gcc q9.c -o q9 } ; if (?) { .\q9 }
Enter a string: character
Enter the character to count: a
The character 'a' occurs 2 times in the string.
PS C:\Users\User\Desktop\C\local\assignment-3-array-string-and-functions-supadhyaya3348-cloud\src>
```

10.

```
-3-array-string-and-functions-supadhyaya3348-cloud\src" ; if (?) { gcc q10.c -o q10 } ; if (?) { .\q10 }
Enter the first string: sameera
Enter the second string: upadhyaya
Concatenated string: sameeraupadhyaya
PS C:\Users\User\Desktop\C\local\assignment-3-array-string-and-functions-supadhyaya3348-cloud\src>
```

11.

```
S C:\Users\User\Desktop\C\local\assignment-3-array-string-and-functions-supadhyaya3348-cloud\src> cd "c:\3-array-string-and-functions-supadhyaya3348-cloud\src" ; if (?) { gcc q11.c -o q11 } ; if (?) { .\q11 }
Enter number of elements in the array: 3
Enter 3 integers: 1 2 3
verage of the array: 2.00
S C:\Users\User\Desktop\C\local\assignment-3-array-string-and-functions-supadhyaya3348-cloud\src>
```

12.

```
PS C:\Users\User\Desktop\C\local\assignment-3-array-string-and-functions-supadhyaya3348-cloud\src> cd "c:\3-array-string-and-functions-supadhyaya3348-cloud\src" ; if (?) { gcc q12.c -o q12 } ; if (?) { .\q12 }
Enter a string: level
1
PS C:\Users\User\Desktop\C\local\assignment-3-array-string-and-functions-supadhyaya3348-cloud\src>
```

13.

```
PS C:\Users\User\Desktop\C\local\assignment-3-array-string-and-functions-supadhyaya3348-cloud\src> cd "c:\User  
-3-array-string-and-functions-supadhyaya3348-cloud\src\" ; if ($?) { gcc q13.c -o q13 } ; if (?) { .\q13 }  
Enter a non-negative integer: 8  
Factorial of 8 is 40320  
PS C:\Users\User\Desktop\C\local\assignment-3-array-string-and-functions-supadhyaya3348-cloud\src> [Go]
```

14.

```
PS C:\Users\User\Desktop\C\local\assignment-3-array-string-and-functions-supadhyaya3348-cloud\src> cd  
-3-array-string-and-functions-supadhyaya3348-cloud\src\" ; if ($?) { gcc q14.c -o q14 } ; if (?) { .  
Enter temperature in Celsius: 15  
15.00 Celsius = 59.00 Fahrenheit  
PS C:\Users\User\Desktop\C\local\assignment-3-array-string-and-functions-supadhyaya3348-cloud\src> [
```

15.

```
Enter a string: programming  
Enter the character to count: g  
The character 'g' occurs 2 times in the string.  
PS C:\Users\User\Desktop\C\local\assignment-3-array-string-and-functions-supadhyaya3348-cloud\src> [
```

16.

```
Enter the number of elements in the array: 5  
Enter 5 integers: 1 2 3 4 5  
Reversed array: 5 4 3 2 1  
PS C:\Users\User\Desktop\C\local\assignment-3-array-string-and-functions-supadhyaya3348-cloud\src> [
```

17.

```
PS C:\Users\User\Desktop\C\local\assignment-3-array-string-and-functions-supadhyaya3348-cloud\src> cd c:\  
-3-array-string-and-functions-supadhyaya3348-cloud\src\" ; if (?) { gcc q17.c -o q17 } ; if (?) { .\q17 }  
Enter base: 2  
Enter exponent (non-negative): 6  
2^6 = 64  
PS C:\Users\User\Desktop\C\local\assignment-3-array-string-and-functions-supadhyaya3348-cloud\src> [
```

18.

```
c q18.c -o q18 } ; if (?) { .\q18 }  
Enter a positive integer: 16  
Prime numbers from 1 to 16: 2 3 5 7 11 13  
PS C:\Users\User\Desktop\C\local\assignment-3-array-string-and-functions-supadhyaya3348-cloud\src> [
```

19.

```
-3-array-string-and-functions-supadhyaya3348-cloud\src\" ; if (?) { gcc q19.c -o q19 } ; if (?) { .\q19 }  
Enter a positive integer: 2  
Factorial series up to 2:  
1! = 1  
2! = 2  
PS C:\Users\User\Desktop\C\local\assignment-3-array-string-and-functions-supadhyaya3348-cloud\src> [
```

20.

```
PS C:\Users\User\Desktop\C\local\assignment-3-array-string-and-functions-supadhyaya3348-cloud\src> Enter two integers: 1 2  
GCD of 1 and 2 is 1  
PS C:\Users\User\Desktop\C\local\assignment-3-array-string-and-functions-supadhyaya3348-cloud\src>
```

21.

```
PS C:\Users\User\Desktop\C\local\assignment-3-array-string-and-functions-supadhyaya3348-cloud\src> Enter a non-negative integer: 4  
Factorial of 4 is 24  
PS C:\Users\User\Desktop\C\local\assignment-3-a
```

22.

```
PS C:\Users\User\Desktop\C\local\assignment-3-array-string-and-functions-su  
-3-array-string-and-functions-supadhyaya3348-cloud\src\" ; if ($?) { gcc q2  
Enter a non-negative integer n: 4  
Fibonacci number F(4) = 3  
PS C:\Users\User\Desktop\C\local\assignment-3-array-string-and-functions-su
```

23.

```
Fibonacci number F(4) = 3  
PS C:\Users\User\Desktop\C\local\assignment-3-array-string-and-functions-supadhyaya3348-cloud\src> cd ..  
-3-array-string-and-functions-supadhyaya3348-cloud\src\" ; if ($?) { gcc q23.c -o q23 } ; if ($?) { ./q2  
Enter two integers: 1 2  
GCD of 1 and 2 is 1  
PS C:\Users\User\Desktop\C\local\assignment-3-array-string-and-functions-supadhyaya3348-cloud\src>
```

24.

```
PS C:\Users\User\Desktop\C\local\assignment-3-array-string-and-functions-supadhyaya3348-cloud\src> cd ..  
-3-array-string-and-functions-supadhyaya3348-cloud\src\" ; if ($?) { gcc q24.c -o q24 } ; if ($?) { ./q24  
Enter base: 2  
Enter exponent (non-negative): 4  
2^4 = 16  
PS C:\Users\User\Desktop\C\local\assignment-3-array-string-and-functions-supadhyaya3348-cloud\src>
```

25.

```
PS C:\Users\User\Desktop\C\local\assignment-3-array-string-and-functions-supadhyaya3348-cloud\src> cd ..  
-3-array-string-and-functions-supadhyaya3348-cloud\src\" ; if ($?) { gcc q25.c -o q25 } ; if ($?) { ./q2  
Ent  
Sum Focus folder in explorer (ctrl + click)  
PS C:\Users\User\Desktop\C\local\assignment-3-array-string-and-functions-supadhyaya3348-cloud\src>
```

26.

```
-3-array-string-and-functions-supadhyaya3348-cloud\src\" ; if ($?) { gcc q26.c -o q26 } ; if ($?) { .  
Enter a string: rome  
Reversed string: emor  
PS C:\Users\User\Desktop\C\local\assignment-3-array-string-and-functions-supadhyaya3348-cloud\src>
```

27.

```
Triangle of 5 rows:  
*  
**  
***  
****  
*****  
PS C:\Users\User\Desktop\C\local\assignment-3-array-string-and-functions-supadhyaya3348-cloud\src>
```

28.

```
PS C:\Users\User\Desktop\C\local\assignment-3-array-string-and-functions-supadhyaya3348-cloud\src> cd "C:\local\assignment-3-array-string-and-functions-supadhyaya3348-cloud\src\" ; if ($?) { gcc q28.c -o q28 } ; if ($?) { .\q28 }  
Enter a non-negative integer: 42  
Binary: 101010  
PS C:\Users\User\Desktop\C\local\assignment-3-array-string-and-functions-supadhyaya3348-cloud\src>
```

29.

```
-3-array-string-and-functions-supadhyaya3348-cloud\src\" ; if ($?) { gcc q29.c -o q29 } ; if ($?) { .\q29 }  
Enter a string: somuch  
0  
PS C:\Users\User\Desktop\C\local\assignment-3-array-string-and-functions-supadhyaya3348-cloud\src>
```

30.

```
PS C:\Users\User\Desktop\C\local\assignment-3-array-string-and-functions-supadhyaya3348-cloud\src> cd "C:\local\assignment-3-array-string-and-functions-supadhyaya3348-cloud\src\" ; if ($?) { gcc q30.c -o q30 } ; if ($?) { .\q30 }  
Enter a string: character  
Enter the character to count: e  
1  
PS C:\Users\User\Desktop\C\local\assignment-3-array-string-and-functions-supadhyaya3348-cloud\src>
```