

Course Code: CSE - 1103

Course Title: Structure Programming Language

Assignment 03

Submitted by

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Submitted to

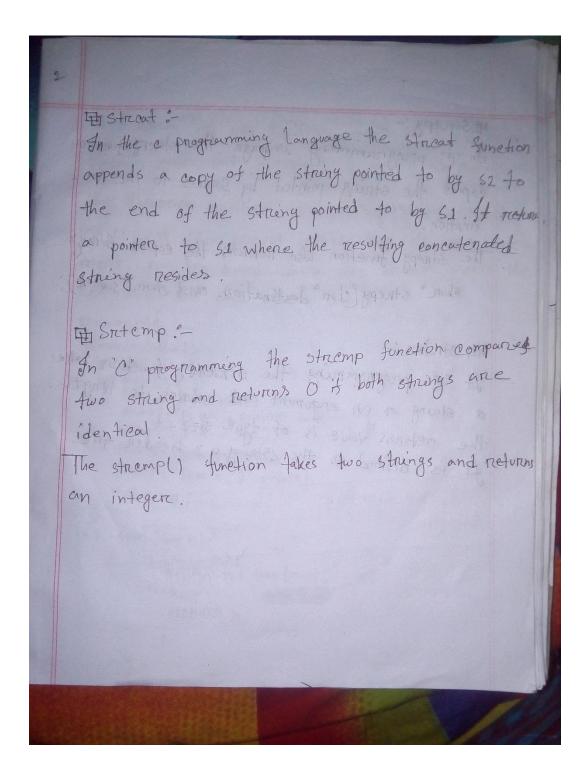
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1. Define String and Array with example?

田String 3-In programming, a string is a sequence of characters terminated with a null character (10). For example Char S[] = " is a string"; when the compiler encounters a sequence of chancele enclosed in the double quotation marks, it appends a null characters (10) at the end by default, THE ANY Tel Artray 0- 100 to supply (1) Photos In programming an array is a variable that can stron stone multiple values. For example if you want to stone loo integers, you can eneate an array for it FOR declare an armay you slould follow this nules dataType annay Name [annay Size] Example float mark [5];

2. Write down the details of the following predefined function of string: strcat(), strcmp(), strcpy() and strlen() ?



In 'c' programming language the stricty function copies the string pointed by source to the destination.

the strepy function also treturens the copied streng char * strepy (char * Jestination, const char * source)

It strilen:

It "a" programming the strilene) function take
a string as an argument and returns its length
the returns value is of type size—t

the returns value is of type size—t

the string in the 1string in the ader file.

3. What is recursion? Describe recursion with example?

```
A function that calls itself is known as a necursion
function. And, this technique is known as recursion.
The necursion continues untill some condition is met to
prevent it to prevent infinite loop, If - else state-
ment can be bused where one brunch makes the
neer risive call, and other doesn't.
                              for element appears
 Example:
 ## include LStdio.h>
   int main () }
       int number, nesult;
   printf ("Enter a positive integer"); scanf ("/L", Rnumber);
      result = sum (number),
      printf ("Sum = /d", result),
                             evilland as from
      neturn o;
  int sum (int n)
          if (n != 0) }
             neturn n+ sum (n-1);
           Belser
              return n;
```

4. What are the differences between array and structure?

	Difference between 8thuch	one and Annag
	Annay	once .
10	and solver to a collection!	Structure noters to a collection of elements of of heterrogenous date type
	Annay uses subscripts on "[]"	element access.
	Armay is pointen as it points to the first element of the collection.	Structure is not a
	Instantiation of Anney's	
	Armay is a primitive datatype	Structure is a user defined dutatype.
		School of the son of t

5. Write a C program to find the numbers between 1 to 150 that are divisible by 3 or 7?