DAILY ASSESSMENT FORMAT

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Course:	C Programming	USN:	4AL18EC040
Topic:	• Structures and Unions • Memory Management	Semester & Section:	4th sem 'A' sec
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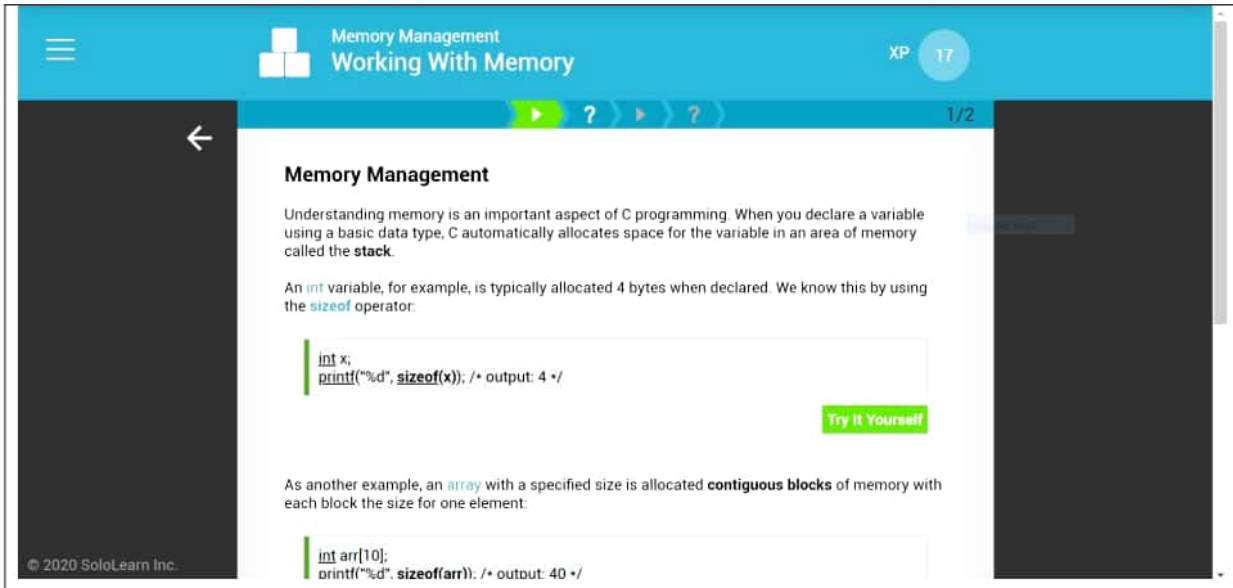
FORENOON SESSION DETAILS
Image of session



Structures and Unions

Structures: In C programming language a struct is a collection of variables .

Syntax of struct:

```
struct structurename
{
    datatype member 1;
    datatype member
};
```

Unions: A Union is a special datatype available in C that allows to store different datatypes in the same memory locations.

Syntax of Union:

```
union unionname
{
    datatype member 1;
```

datatype member 2;

};

Memory Management

In C programming, the library function malloc is used to allocate a block of memory on the heap

The Malloc function: malloc or memory allocation method in C is used to dynamically allocate a single large block of memory with the specified size

Syntax of malloc function:

ptr = (cast-type*) malloc(byte-size);

Calloc and Realloc:

Syntax of calloc:

ptr = (cast-type*) calloc(n, element-size);

This statement allocates contiguous space in memory for 25 elements each with the size of the float.

Realloc: Realloc or re-allocation method in C is used to dynamically change the memory allocation of a previously allocated memory.

Syntax of Realloc:

ptr = realloc(ptr, newsize);

Dynamic Strings and array