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Name: Sneha. G

Course: C programming

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Report:

⇒ Structures & Unions: In C-programming, a struct is called under a single name. To define struct, keyword is used

Syntax:

```
struct structurename
{
    datatype member1;
    datatype member2;
};
```

⇒ Working with Structures: A special datatype available in c that allows to store different data types

Syntax:

```
union unionname
{
    data type member1;
    datatype member2;
};
```

⇒. Memory Management: Working with memory, The Malloc function

Syntax:

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

=) Calloc & Realloc : used to dynamically allocate the specified type. It initializes each block with default value

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

The statement allocated contiguous space in memory for 25 elements each with the size of the float

Realloc: used to dynamically change the memory allocation of a previously allocated memory

Syntax:

```
ptr = realloc (ptr, newsize)
```

=) Dynamic Strings & Arrays: is allocated found in the array & s and size are set.
If the array needs to grow, Realloc is used to extend it automatically. Give a char* to a dynamic string, it is possible to scan the array looking for the corresponding element.