**SESSION**

**JUL/AUG 2021**

**PROGRAM**

**MCA**

**SEMESTER**

**I**

**COURSE CODE & NAME**

**DCA6102, Programming in C**

**Set- 1st**

**1. What is the basic structure of C program? Write a program to calculate the area of a circle.**

**Ans..**Whenever we create a program in [**C language**](https://cstutorialpoint.com/what-is-c-language/), we can divide that program into six different sections. This section is as follows:

1. Documentation (Documentation Section)
2. Preprocessor Statements (Link Section)
3. Definition Section
4. Global Declarations Section

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**2. What is the use of control statements in C? Explain various control statements in C programming language.**

**Ans. The use of control statements in C:** A control statement allows structured control of the sequence of application statements, such as loops, and conditional tests. It also allows switching the input stream to another file, opening and closing files, and various other operations. Control statements enable us to specify the flow of program control; ie, the order in which the instructions in

**3. What is the purpose of storage class in C? Explain various types of storage in class in C.**

**Ans.** Storage Classes are used to describe the features of a variable/function. These features basically include the scope, visibility and life-time which help us to trace the existence of a particular variable during the runtime of a program.
**C language uses 4 storage**

 **Set- 2nd**

**4. What is an array? Explain the declaration and initialization of one dimensional and two dimensional array with an example.**

**Ans.** An array is a collection of similar data elements stored at contiguous memory locations. It is the simplest data structure where each data element can be accessed directly by only using its index number.

For instance, if we want to store the marks scored by a student in 5 subjects, then there’s no need to define individual varia

**5(a). Define pointer. How to declare and initialize it**

Ans. A pointer is a variable that stores a memory address. Pointers are used to store the addresses of other variables or memory items. Pointers are very useful for another type of parameter passing, usually referred to as Pass By Address.

## Declaration of C

**5(b). Write a C program to illustrate the use of indirection operator to access the value pointed by a pointer.**

**Ans. Indirection operator through pointer:** Pointers have two uses. The first is to store a memory address. The second is to use the stored memory address to access that points using an indirection.

An indirection in C

**6(a). Define Structure and write the general syntax for declaring and accessing members.**

**Ans.** To define a structure, you must use the struct statement. The struct statement defines a new data type, with more than one member. The format of the struct statement is as follows –

struct [

**6(b). Write a C program to show employee details using structure.**

**Ans.** To store multiple employee details we will use an array of structures. Each element in the array will represent a single employee.

Each