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Coimbatore-36. An Autonomous Institution

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COURSE NAME : 23CST101 – PROGRAMMING FOR PROBLEM SOLVING

I YEAR/ II SEMESTER

UNIT – I

Topic: Structure of C program

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Structure of C program

```
/*Program to find
  area and perimeter of Circle */
#include<stdio.h>
#define PI 3.1415
float radius;
float area();
float perimeter();
int main()
   float a, p;
   printf("Enter radius: ");
   scanf("%f",&radius);
   a = area();
   p = perimeter();
   printf("Area of Circle: %f",a);
   printf("Perimeter: %f",p);
float area()
  return (PI * radius * radius);
float perimeter()
   return (2 * PI * radius);
```

Documentation Section	
Linkage Section Definition Section	
Global Declaration Section	
Main Function Section	
Local Declaration Part	
Executable Code Part	
Sub Program Section	
Function1()	
Function2()	

FunctionN()



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Structure of C program

Documentation Section

- This section consists of comment lines which include the name of programmer, the author and other details like time and date of writing the program.
- Documentation section helps anyone to get an overview of the program.

Link Section

- The link section consists of the header files of the functions that are used in the program.
- It provides instructions to the compiler to link functions from the system library.

Definition Section

- All the symbolic constants are written in definition section.
- Macros are known as symbolic constants.



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Global Declaration Section

- The global variables that can be used anywhere in the program are declared in global declaration section.
- This section also declares the user defined functions.

main() Function Section

- It is necessary have one main() function section in every C program.
- This section contains two parts, declaration and executable part.
- The declaration part declares all the variables that are used in executable part.
- These two parts must be written in between the opening and closing braces.
- Each statement in the declaration and executable part must end with a semicolon (;).
- The execution of program starts at opening braces and ends at closing braces.



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Subprogram Section

- The subprogram section contains all the user defined functions that are used to perform a specific task.
- These user defined functions are called in the main() function.