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Assignment - I



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Assignment I : Basics and printf.

My first C program

```
int main (void) /* program entry point */
{ /* start of block, start of scope */Block body;
Block body... Block body;Return 0;}
/* end of block */
```

In C always main is the entry point, Program always start with main. In the bracket void means currently main function is not accepting any argument as input, while in front of main int means, this function will return integer variable at last. We will see in details soon.

When you write any program you have to save some data, for that you need a variable which can hold the input parameter and data. Even we need variable during the calculation in program. So how to declare variable, `int variable_name;` //Remember variable name does not have any space, also variable //name does not start with numbers.

In above function one of the important point is curly brackets {}, any function will start from curly bracket and end with curly bracket. Don't forget this point, this is very important.

printf is a c subroutine, that is defined in stdio.h library. Printf is a library function, we have to use the ways it defined. Here is different use of printf: -

- In its simplest form printf takes a character string to display.
`printf("hello world \n");`

Here \n means new line, when you are working in Linux environment then we have to give \n in each printf line, otherwise we had seen some of the unwanted results.

- Printf can be used to print variable

`Printf("hello my friend I am printing variable using %d \n", variable_name);`
Here we are using %d to print variable, after ',' we have to give name of variable which we want to print.

- Printf can be used for printing multiple variables at a time.

`Printf("hello my friend I am printing many variables at a time %d %d %d %d\n", a,b,c,d);` Here we are using four %d to print 4 variables. As many %d we are writing in printf, same number of variable we have to write in printf, otherwise compiler will give error.

There are many other use of printf and its argument which we discuss when required.

Start your new life from here



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- 1) Print your name.
 - 2) Addition of two numbers.
 - 3) Subtraction of two numbers.
 - 4) Find multiplication of two numbers.
 - 5) Take two number and divide them.
 - 6) In one program do add, sub,mul,div. print the answer using one printf statement
 - 7) Find the average of 5 given numbers, 8, 12,18,23,46
 - 8) Sunita had brought 5 note books, each notebook cost is 10 Rs, write a program to find out total how much money sunita spend for notebook. Sunita has sold 2 note book to manjunath at price of 15 Rs each, one notebook to sagar at the cost of 12 Rs, and reaming to kavitha at price of 11 Rs. Find out how much profit sunita got.
 - 9) In a class 5 student mathematics number is 47, 38, 42, 49 and 41. Calculate total percentage of result of class. (Maximum mark in subject is 50).
 - 10) C program to calculate Area and Circumference of Circle.
 - 11) Write a program to calculate area of rectangle.
 - 12) Write a C program that calculates the volume of a sphere.
 - 13) Enter the centimeter that to converted into kilometer and meter.
 - 14) Swap two given numbers.
 - 15) Swap two number without using Third variable.
 - 16) Find the given number is divisible by 5 or not.
 - 17) Find given number is even or not.
 - 18) Find the given year is leap year or not (Every 4th year is leap year).
 - 19) Print the reverse of given number i.e. 4692 (expected ans 2964).
 - 20) Sum of all digits of given number i.e. 4692.
 - 21) Write C program to find size of int, float, double, char, long int, short int, unsigned int, signed int, unsigned char, signed char.
2. Theory question need to clear
- 1) What is Variable?
 - 2) What is the use of C language?
 - 3) What is the size of int 2 bytes or 4 bytes.
 - 4) What is signed and unsigned number? Where we use signed number?
 - 5) How to swap two number without using third number. Will method works in all conditions ?
 - 6) How to give variable name? What is the method to give variable name?