**Pointers to Functions in C**

(How can we point the function) ( the specific pointer which can point to function)

The way we have pointer for integer, pointer for char.. same way we have pointer for function.

***Declaration of pointer to functions :***

Syntax : <function return type > (<\*pointer name>)(<functions argument type or type of arguments>)

Ex.

void (\*ptr)(int, int) // name of the pointer is ptr and now we can use this ptr for the pointing the function.

**giving address of the function to the pointer :**

pointer\_name = & function\_name;

or

pointer\_name = function\_name;

ptr = &add;

or

ptr = add;

**how to call functions using pointer in the actual program**

ptr(10,20);

(\*ptr)(10,20);

#include<stdio.h>

void add(int x, int y)

{

 printf( “ first value : %d “, x);

 printf( “ second value : %d “, y);

 printf( “ Addition = : %d “, x + y);

}

int main()

{

int a,b;

**void (\*ptr)(int, int);** // function defined which is having name ptr Make sure u always put (\*ptr )in parenthesis().

**ptr = add;**

printf(“enter first no”);

scanf(“%d”, &a);

printf(“enter second no”);

scanf(“%d”, &b);

**ptr(a,b);**

**//note that this ptr can also be used for other functions which has return type void iannd having 2 int arguments)**

return 0;

}