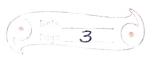
	Name: KRISHANU DEY Reg. No: 2021 CA055	Date Page 1
	Pand PS (Theory) Assignment No. 2	
	Assignm	ent No. 2
3	Is it possible to have a fun function?	ction as a parameter in another
	function?	
,		
~ 1 ns -	No , we cannot pass the fu	nction as an argument to
	another function, But we	can pass the reference of a
	function as a parameter	by using a function pointer.
	This process is known as	call by reference as the
	another function. But we can pass the reference of a function as a parameter by using a function painter. This process is known as call by reference as the function parameter is passed as a pointer that holds	
	the address of arguments.	
	Synlax: (lype) (* pointer-name) (parameter);
2	What is the dillown but	the Call by Value and
	Call by Reference?	ausen and by value
	J. P. Charles	
In -	Call by Value	Call by Reference
	· little calling a prenction, we pass	· While calling a function, we pass
	values of variables to it.	address of variables text
	· Value of variable in calling	· Address of variable in alling
	function is appeal to during	function is copied to dummay
	variable in called function	Variable of called function
	· Changes made on dummy	· Changes made on dumay
	Mariable have no effect on	variable also reflects on
	extual variable.	actual variables.



3) What we global variables and how do you declare them Ans- blokal variables are those variables which are declared outside of all the functions or block and can be accessed globally in a program It can be accessed by any program function present in the program.

eg: # include < stdis.h> int a = 50, b = 40, // global variable declaration vaid main () ? } printf ("a = 1,d and b = 1,d"a, b); 4) Is that possible to add pointers to each other? Ans- No, there is no possibility to add pointers to each other since pointer contains address details there is no way to retrieve the value from this operation. b) What are the ways to a null pointer that can be used in the C Programming Language? Ans Some of the most common use casas for NULL are: a) To initialize a pointer variable when that pointer variable int assigned any valid memory address yet.

b) To check for a null pointer before accessing any pointer e) Also passed as an argument to a function.



how many ways can a pointer act as a Dangling Counter? Ans- A pointer pointing to a memory breation that has been deleted (on freed) is called alongling pointer. There are three different ways where Pointer acts as dangling pointer.

a) De-allocation of memory.

b) Function Call

c) Variable goes out of scape. 7) Compare arrays with pointers in the C Programming language Ans- Droigy Painter · type var name [size]; · Collection of elements of similar data type: · type * var name;
· Stare the address of another
variable. only one warrable. of element it can store. · Arrays are state in natura · Painters are dynamic in nature Memory allocation is in Memory allocation is random sequence.



8) Explain Recursion in C. Ans-Recursion is the process which comes into exertence when a function calls a copy of itself to work on a smaller problem. Any function which calls itself is called recursive function, and such function calls are called recursive calls.

eg:-# include < stdio h> int fact (int); // necusive function declaration int main () ? print ("Enter a number: "); scanf ("/, d", &n).

f = fact (n): // stores back result

print ("factorial = /, d", f);
} 1/ Recursive function definition. int fact (int n) if (n = = 0) // base case

return 0:

if (n = = 1) // base case

return 1; else return n * fact (n-i); // recursive call