

* Function Call Stack

Follow LIFO ordering

Function call stack show one after another which Function calls are happens & which function called another function, local variables of Function & what the Function will esturn.

Ex. Finding maximum from two Numbers

main () \(\) int max(int a / int b);

int a=1;

int b=2;

cout << max(a/b);

return q;

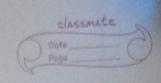
return o;

return b;

}

max(a) max function return 2 as multimaine) to maine () & gets out of punction call stack

(main) Agets out of Function cold



main () returns a to operating system as as any starts the programe.

pass by value:-Sepreate Copy will be created.

Add a two numbers alb.

mainc) { int add (int a int b) {
int a=6;
int b=6;
int b=6;
int cout << " value of a

in function" << a

cout << " value of g

a in roain";

return o;

return o;

a b

a 6+7=13

value of sum: 13

value of a before calling function in main function is:-6

In add function a is:- 7

How to see address of variablesp. int a= 5; cout e fa; Print address of a operator operator is an address * Invoking the function main () ? These give an error. int add ciwta, intb); Solo to this int add (inta, intb); // decle eation of main & Function add (aib); int add cinta, intb); .. Note He have to make sure that at least we have declared the function before invoking the Function.

Q.0) Find made of & numbers int max OFThree (intarint b, intc) & iF (a>b & & a>c) ? e eturn a; felse if (b) a fabre) 3 eeturn b; 8 elses eeturn c; 3 9.3) Counting From 1 to n void Counting (int n) Foelintiet; iz=n; it+) cout Lci ecendi; 9.4) Function to Students & grades. abad print Grade (int marks) ; That if (marks >= 90) & retuen'A'} else if (marks >= 80) queturn 'B'3 else if (marks)=70) & return'c's else 3 ecturn'D



statment to more neatly.

swith (marks/10) &

case so: return 'A'; break; case 9: return 'A'; break;
case 8: return 'B'; break;
case 7: return 'C'; break;
case 6: return 'D'; break; return'E: desfault

Sum of Even numbers Upto n.

int printEvenSum (int n) {

int sum = 0;

zeturn aum;

Note: Avoid » 1. operator as it is heavy operation.