10.4 User defined functions Syntax: Return type Function_name(parameter list) Ł Body of the function } 1) Return type-: It is the data type of the value returned by the function to the called function; 2) Function name: A name given by the user. Different types of User defined functions. 1) A function with arguments and return type. A function with arguments and no return type. 3) A function with no arguments and with return type. A function with no arguments and no return type. 10.4.2 Prototype of functions Consider the following codes Method 1 #include<iostream> using namespace std; int sum(int n1,int n2) { return(n1+n2); } int main() { int n1,n2; cout<<"Enter 2 numbers :"; cin>>n1>>n2;cout<<"The sum is "<<sum(n1,n2); } Method 2 #include<iostream> using namespace std; int main() { int n1, n2;cout<<"Enter 2 numbers :"; cin>>n1>>n2;cout<<"The sum is "<<sum(n1,n2); } int sum(int n1,int n2) return(n1+n2); } In method 1 the function is defined before the main function. So there is no error. In method 2 the function is defined after the main function and there is an error called "function sum" should have a prototype". This is because of the function is defined after the main function. To resolve this a prototype should be declared inside

the main function as follows.

Method 2 #include<iostream> using namespace std; int main() int n1,n2; int sum(int, int); cout<<"Enter 2 numbers cin>>n1>>n2;cout<<"The sum is "<<sum(n1,n2); }

int sum(int n1,int n2)

return(n1+n2);