We created a tracker for daily water input using C++ language and submitted on the 3rd day of Local Hack Day. Our code goes as followed:

*#include<iostream>*

*using namespace std;*

*float input\_amt()*

*{*

*float cup;*

*cout<<"\nHow many cups in the last hour?: ";*

*cin>>cup;*

*return cup;*

*}*

*float conditions()*

*{*

*float h;*

*cout<<"\nHow many hours do you stay awake?: ";*

*cin>>h;*

*return h;*

*}*

*void output(float total)*

*{*

*cout<<"\nTotal water intake (approx.): "<<total<<" mL"<<endl;*

*if(total<2000)*

*{*

*cout<<"\nYou drank less than 2 lit of water! ";*

*cout<<"\nYou're dehydrated! :(";*

*}*

*else*

*{*

*cout<<"\nGood work! ";*

*cout<<"\nStay dehydrated everyday! :)";*

*}*

*}*

*int main()*

*{*

*input:*

*float cup, total=0, hr, tcup=0;*

*char ch;*

*hr = conditions();*

*for(int i=1; i<=hr; i++)*

*{*

*cup = input\_amt();*

*tcup+=cup;*

*}*

*total = tcup\*250;*

*output(total);*

*cout<<"\nAre you registered for the next day?(Y/N): ";*

*cin>>ch;*

*if(ch=='Y'||ch=='y')*

*goto input;*

*return 0;*

*}*

There are 3 functions in this program, apart from the main function.

The function *input\_amt()* takes the input of how many cups of water has been taken in the last hour from the user, stores the value in the variable cup of float datatype and returns the same. Hence the function is of float datatype.

The function *conditions()* takes the input of the no. of hours the user stays awake, stores it in variable h of float datatype and returns the same. Hence, the function is also of float datatype.

The function *output()* is of void type and the total amount of water input in a day is passed as a parameter through this function. It displays the total water intake and shows if the user is dehydrated or not (depending on whether the water intake is less than 2L or not).

The main body of the program starts with input: where the program returns to every day, if the user is registered for it. At first, total intake is initialized as total=0 and total no. of cups is initialised as tcup=0 (both are of float type). Then, *conditions()* is called and the returned value is stored in variable hr of float datatype. Next, we run a for loop for i=1 to i<=hr with an iteration of 1, and in that for loop we call *input\_amt()* and store the returned value in cup of float type and increase the value of tcup by adding the existing value of tcup with that of cup, thus calculating the total no. of cups of water taken in a day. After the completion of the for loop, we calculate the total water intake by multiplying tcup with 250 (assuming the average amount of water each cup can hold to be 250 ml). Then *output()* is called passing total as the parameter.

Here’s a sample output of our code:

