

User Manual:-

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PROGRAM : Blood_Alcohol_Concentration_Chart_creator.cpp
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Last Modified : 16th February, 2016.
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Program Purpose:

This program will create a nice BAC [Blood Alcohol Concentration] Chart for both Male and Female persons, which is strongly correlated with driving impairment. For this reason, the program will take two integer values, [one for getting the weight of the user, another for having the time(in minutes) since the user had his/her last drink], and a character value [for getting the information, whether the user is 'M' for male or 'F' for female.] as inputs. After giving all these information properly as inputs, the program will show a whole detailed BAC chart [for that particular inputs.] as an output.

To run the program, please open the Blood_Alcohol_Concentration_Chart_creator.cpp file in a compiler that is able to compile any program, which is written in C++. After that, build and run the program.

1. A new window will pop-up. It will show you a few lines about the purpose of the program. Then it will ask you to enter your weight in pounds.
2. Enter a valid weight between 0 to 1000000.
3. If your input is not perfect, then the program will ask you to give your input again.
4. Then it will ask you to enter time in minutes since you last drink.
5. Enter a valid time between 0 to 100000000.
6. If your input is not perfect, then the program will ask you to give your input again.
7. At last, the program will ask you to enter your gender as an input of 'M' for male and 'F' for female.
8. If your input is not perfect, then the program will ask you to give your input again.
9. After all these steps [when all of them are done perfect], the program will print out the BAC [Blood Alcohol Concentration] Chart based on your given information.

[Note: The program is well-formatted using the <iomanip> library]

Sample Test:

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/home/mosfiqu/Desktop/CS-171/HW_3/HW_3_CS_171/Blood_Alcohol_Concentration_Chart_creator

Welcome to BAC [Blood Alcohol Concentration] Chart creator!

Please, enter your weight [in pounds]: 210
Great! Now, please, enter the time [in minutes] since you last drink: 60
At last, please tell me your gender [as 'M' or 'F']: M

210 pounds, male, 60 minutes since last drink
# drinks    BAC    Status
0 0.000 Safe To Drive
1 0.003 Some Impairment
2 0.021 Some Impairment
3 0.039 Some Impairment
4 0.057 Driving Skills Significantly Affected
5 0.075 Driving Skills Significantly Affected
6 0.094 Criminal Penalties in Most US States
7 0.112 Legally Intoxicated - Criminal Penalties in All US States
8 0.130 Legally Intoxicated - Criminal Penalties in All US States
9 0.148 Legally Intoxicated - Criminal Penalties in All US States
10 0.166 Legally Intoxicated - Criminal Penalties in All US States
11 0.184 Legally Intoxicated - Criminal Penalties in All US States

Process returned 0 (0x0)    execution time : 17.355 s
Press ENTER to continue.
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