

User Manual

Project---Graph Plotter

Our Group-

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Following things may be some of the pre requisites...

- Just download the SimpleCPP (or get the simplecpp library and kept in the folder where the compiler has been installed) and the program can be compiled with the application Simple CPP.
- Also Compiler to be used is GNU GCC.
- Also get access to the main part of our program code and also other draft codes in the main folder .Open the project file and have it compiled.
- When you run and execute the program you will get a graphical interface which will further guide you to the features of the project and all the regarded information like derivative, integral, area, length of curve, and other data items.
- Please try to enter the functions in the correct syntax. Else it may lead to problems or other compilation errors or possibly user may get some wrong numerical value.

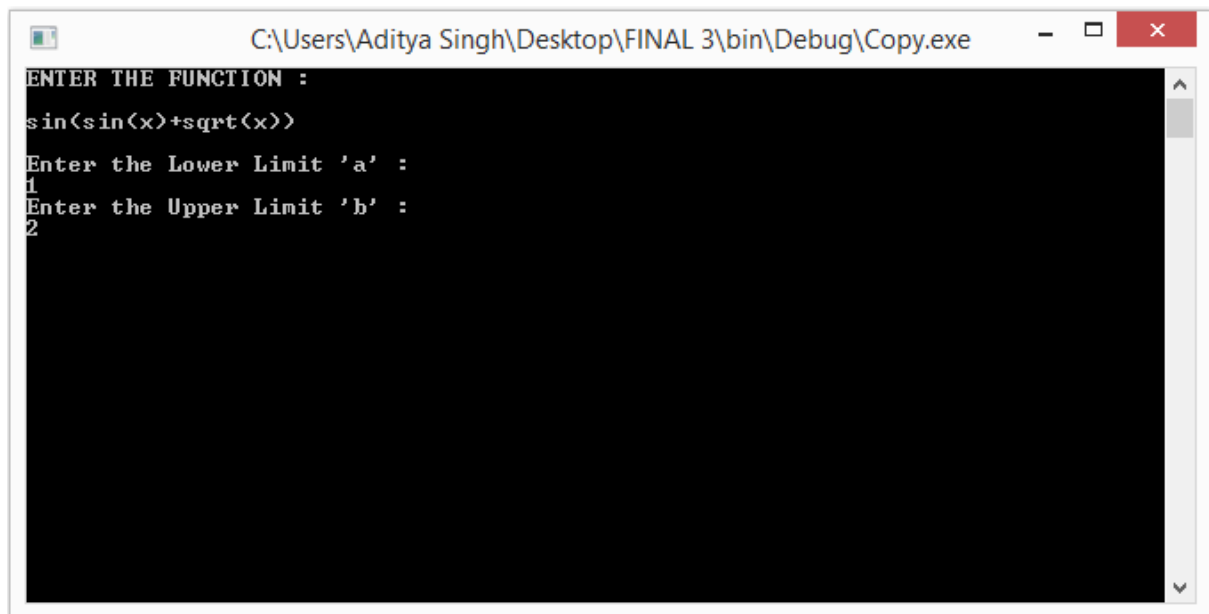
Our Parser is completely made by us for use in our project and here is the syntax for entering the functions in it:

S.NO.	Mathematical Input	SYNTAX
1.	Sine(x)	sin(x)
2.	Cosine(x)	cos(x)
3.	Tan(x)	tan(x)
4.	Cot(x)	cot(x)
5.	Sec(x)	sec(x)
6.	Cosec(x)	cosec(x)
7.	e^x	exp(x)
8.	Square root(x)	sqrt(x)
9.	Log(x)	log(x)
10.	Absolute value of x	abs(x)
11.	Sinh(x)	sinh(x)
12.	Cosh(x)	cosh(x)
13.	Tanh(x)	tanh(x)
14.	Arcsin(x)	asin(x)
15.	Arccos(x)	acos(x)
16.	Arctan(x)	atan(x)

17.	Polynomials	e.g. $4x^4+5x^2+2$ (WITHOUT SPACES)
18.	General powers	e.g. $\sin(x)^3+\cos(x)^2$ (WITHOUT SPACES)

Mathematical Operators:

Addition	+
Subtraction	-
Multiply	*
Divide	/
Power	^



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C:\Users\Aditya Singh\Desktop\FINAL 3\bin\Debug\Copy.exe
ENTER THE FUNCTION :
sin(sin(x)+sqrt(x))
Enter the Lower Limit 'a' :
1
Enter the Upper Limit 'b' :
2

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WHEN THIS BOX APPEARS USER MUST GO TO THE CONSOLE PANEL FOR FURTHER PROCESS.

PLEASE GO TO CONSOLE TO ENTER THE FUNCTION

OK

CAVEATS:

*It's better to enter your domain well within function's working.

*Try to give domain where the function doesn't jump suddenly to a very large (+inf) or very low value (-inf).As it may cause the Graph plotter to cause some problems.

OTHER THINGS:

*Even if User enters wrong domain he will get an error message.

*If User enters an Invalid string as a function also he will get an error message telling him that he had violated syntax.

*It's better to give bit smaller domains to plot upon as it will give the User a very Clear view of how the function looks.

*Also the Global Maximum and Global Minimum are indicated at the Bottom left hand corner of the PLOT window.

*Graphing Calculator is a very useful tool for calculating values of very complex looking functions.

*******THANK YOU*******