Open \blacksquare bisect.jl -/sep211 f(x)=x^2-2 2 a=0.0To Save file, shortcut is3 b=2.0 4 c=(a+b)/2To Save file, shortcut is $4 c=(a+b)/2$ 5 y=f(c) 6 if y<0 7 println("updating a")do this before trying to run the code8 a=c 9 else10 println("updating b")11 b=c12 end		
2 a=0.0 $3 b=2.0$ $4 c=(a+b)/2$ $5 y=f(c)$ $6 if y<0$ $7 println("updating a")$ $8 a=c$ $9 else$ $10 println("updating b")$ $11 b=c$ $10 Save file, Shortcut is$ $ctrl + [5]$ $do fhis before trying to$ $run the code$	Open 🔻 🛨	
2 a=0.0 $3 b=2.0$ $4 c=(a+b)/2$ $5 y=f(c)$ $6 if y<0$ $7 println("updating a")$ $8 a=c$ $9 else$ $10 println("updating b")$ $11 b=c$ $Jo Save file, Shortcut is$ $cfrI + [S]$ $do flis before trying to run the code$	$1f(x)=x^{2}-2$	
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10 println("updating b") 11 b=c		
11 b=c		
)
12 end		
	12 end	

Open 🔻	t bisect.jl	
1 func	tion bisect(a,b)	The final progra
	c=0	is also available
3	for i=1:10	our websate.
4	c=(a+b)/2	
5	y=f(c)	
	if y<0	
6	<pre>println("updating a with",c)</pre>	
8	a=c	
9	else	
10	<pre>println("updating b with",c)</pre>	
11	b=c	
12	end	
	end	
	return a,b	
15 end		
16		
17 f(x)	=x^2-2	
	ct(0.0,2.0)	
10 8100		

julia> include("bisect.jl") updating a with1.0 updating b with1.5 updating a with1.25 updating a with1.375 updating b with1.4375 updating a with1.40625 updating b with1.421875 updating a with1.4140625 updating b with1.41796875 updating b with1.416015625 (1.4140625, 1.416015625)bounds on the error J2 is in the interval julia> sqrt(2) 1.4142135623730951