1 "C:\Program Files\Java\jdk-14.0.1\bin\java.exe" "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA
Community Edition 2020.1.1\lib\idea_rt.jar=49396:C:\Program Files\JetBrains\IntelliJ IDEA Community
Edition 2020.1.1\bin" -Dfile.encoding=UTF-8 -classpath C:\Users\ctqdt\IdeaProjects\CS3010_Project_3\
out\production\CS3010_Project_3 com.company.Main

2	aaaaaa	വരതതതതതതതത)രരതതതതതത	തെരതതതതതതത) 1000000000000000000000000000000000000	ഒരെതെരെതെതെത്തെ	<u>ര</u> െരെരെരെരെ					
4				on: $f(x) = 2$	2x^3 - 11.7	$x^2 + 17.7x$	- 5						
6			*****										
8 9	*****	BISECTION METHOD ************************************											
10													
11	n	a	b	С	f(a)	f(b)	f(c)	е					
12 13	0	0.0000	1.0000	0.5000	-5.0000	3.0000	1.1750	N/A					
14							-1.2750						
15	1 2	0.0000 0.2500	0.5000 0.5000	0.2500 0.3750	-5.0000 -1.2750	1.1750 1.1750	0.0977	1.0000 0.3333					
16	3	0.2500	0.3750	0.3125	-1.2750	0.0977	-0.5503	0.2000					
17	4	0.3125	0.3750	0.3438	-0.5503	0.0977	-0.2169	0.0909					
18	5	0.3438	0.3750	0.3594	-0.2169	0.0977	-0.0573	0.0435					
19	6	0.3594	0.3750	0.3672	-0.0573	0.0977	0.0208	0.0213					
20	7	0.3594	0.3672	0.3633	-0.0573	0.0208	-0.0181	0.0108					
21	8	0.3633	0.3672	0.3652	-0.0373	0.0208	0.0014	0.0053					
22	Ü	0.3033	0.5072	0.3032	0.0101	0.0200	0.0014	0.0055					
23	*****	**************************************											
24	ala ala ala ala ala al												
25 26	*****	*******	*****	*****	******								
27	n	a	b	f(a)	f(b)	С	f(c)	е					
28 29	0	0.0000	1.0000	-5.0000	3.0000	0.6250	1.9805	N/A					
30	1	0.0000	0.6250	-5.0000	1.9805	0.4477	0.7585	0.3961					
	2		0.4477		0.7585		0.2298	0.1517					
31		0.0000		-5.0000		0.3887							
32	3	0.0000	0.3887	-5.0000	0.2298	0.3716	0.0646	0.0460					
33	4	0.0000	0.3716	-5.0000	0.0646	0.3669	0.0178	0.0129					
34 35	5	0.0000	0.3669	-5.0000	0.0178	0.3656	0.0049	0.0036					
36	*****	*******	*******	*****	******								
37			WTON RAPHSON										
38	*****	********	*******	*********	*******								
39													
40	n	x_n	f(x_n)	f'(x_n)	x_n+1	f(x_n+1)	f'(x_n+1)	e					
41													
42	0	0.5000	1.1750	7.5000	0.3433	-0.2212	10.3733	N/A					
43	1	0.3433	-0.2212	10.3733	0.3647	-0.0044	9.9648	0.0585					
44	2	0.3647	-0.0044	9.9648	0.3651	-0.0000	9.9565	0.0012					
45 46	*****	*******	*******	*****	******								
47			SECANT METH										
48	*****	*******	*******		******								
49													
50 51	n	x_n-1	f(x_n-1)	x_n	f(x_n)	x_n+1	f(x_n+1)	е					
52	0	0.0000	-5.0000	1.0000	3.0000	0.6250	1.9805	N/A					
53	1	1.0000	3.0000	0.6250	1.9805			7.0417					
54	2	0.6250	1.9805		-6.9585	0.4636	0.8904	1.2231					
55	3	-0.1034	-6.9585	0.4636	0.8904	0.3993	0.3293	0.1611					
56	4	0.4636	0.8904	0.3993	0.3293	0.3615	-0.0356	0.1044					
57	5	0.3993	0.3293	0.3615	-0.0356	0.3652	0.0012	0.0101					
58	6	0.3615	-0.0356	0.3652	0.0012	0.3651	0.0000	0.0003					
59													
60	*****		*********		*******								
61	***		IFIED SECANT *********		ኑ ች ች ች ች ት ተ ተ ተ ተ ተ ተ ተ ተ ተ ተ ተ ተ ተ ተ ተ ተ ተ ተ ተ								
62	ጥጥተ ችች	- 7- ጥጥጥጥጥጥ ች ች ች ች	~~~~~~	···· ጥ ጥ ጥ ጥ ጥ ጥ ጥ ጥ ጥ ች ች ች ች	···· · · · · · · · · · · · · · · · · ·								
63		** -=	£/\	L		£(d \	4	_					
64 65	n	x_n	f(x_n)	a	u + x_n	f(d + x_n)	x_n+1	e					
65 66	0	0.5000	1.1750	0.0050	0.5050	1.2123	0.3424	N/A					
67	1	0.3424	-0.2307	0.0017	0.3441	-0.2129	0.3647	0.0610					
07	1	0.3424	-0.230/	0.001/	0.3441	-0.2123	0.304/	0.0010					

58 2	0.3647	-0.0044	0.0006	0.3653	0.0018	0.3651	0.0012					
59 70 @@@($egin{array}{cccccccccccccccccccccccccccccccccccc$											
71	Equation: $f(x) = x + 10 - x \cosh(50/x)$											
	<u> </u>			<u></u> <u> </u>								
73 74 ************************************												
75												
76 ***												
77 78 n	3	b	С	f(a)	f(b)	f(c)						
79	a 						e 					
30 O	126.0000	127.0000	126.5000	-0.0515	0.0297	-0.0107	N/A					
31 1	126.5000	127.0000	126.7500	-0.0107	0.0297	0.0095	0.0020					
32 33 ***;	******	**********	**********	*******								
34												
	********	LSE POSITION		******								
36												
37 n	a	b	f(a)	f(b)	С	f(c)	е					
38	126 0000	127 0000	0.0515	0.0207	126 6242	0.0002	N./A					
39 0 90 1	126.0000 126.0000	127.0000 126.6343	-0.0515 -0.0515	0.0297 0.0002	126.6343 126.6324	0.0002 0.0000	N/A 0.0000					
91	120.0000	120.0343	-0.0515	0.0002	120.0324	0.0000	0.0000					

93												
•	******	*********	********	******								
95		5 ()	C1 ()	4	C/	C1 (_					
96 n 97	x_n	f(x_n)	f'(x_n)	x_n+1	T(X_N+1)	f'(x_n+1)	е					
98 0	126.0000	-0.0515	0.0819	126.6292	-0.0003	0.0810	N/A					
9 1		-0.0003	0.0810	126.6324	-0.0000	0.0810	0.0000					
90												
-	*********************************											
102												
)3 ***;)4	* * * * * * * * * * * * * * * * *	• ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	• ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	*****								
95 n	x_n-1	f(x_n-1)	x_n	f(x_n)	x_n+1	f(x_n+1)	e					
6	-				-							
97 0	126.0000	-0.0515	127.0000	0.0297	126.6343	0.0002	N/A					
8 1	127.0000	0.0297	126.6343	0.0002	126.6324	-0.0000	0.0000					
)9 a=***	******	*********	*********	*******								
10 **** 11		OIFIED SECANT										
	*********			******								
L3												
L4 n		f(x_n)	d	d + x_n	$f(d + x_n)$	x_n+1	е					
L5 L6 0	126.0000		1 2600	127 2600	a asas	 126 6357						
	126.6357											
	120.0337	0.0003	100.0010	200.1307	5.0215	120.0202	0.0001					
L8												