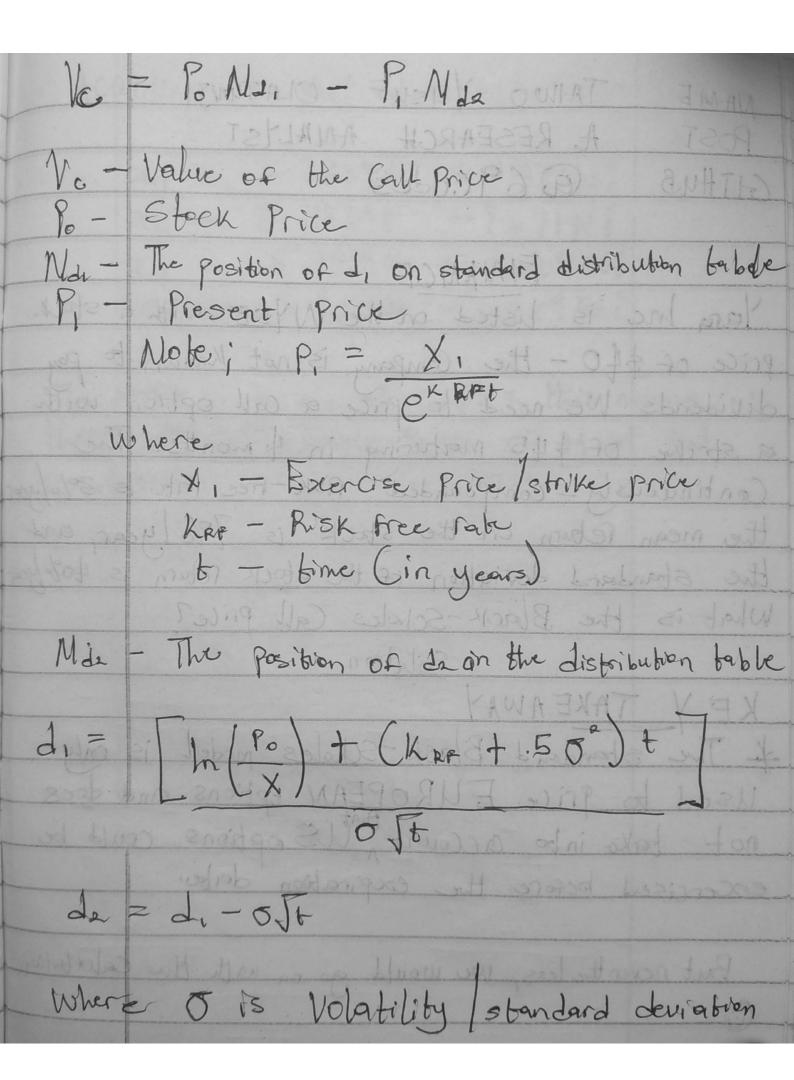
(Med) TAILUO YUSUF OLATUNJI MAME A. RESEARCH AMALYST POST @69 Codes GITHUB 18 - 1 Stock Price 0 = 01 about modulations ETNAMCE 16 40 mobiles of all larg Inc is listed on the NYSE with a stock price of \$40 - the Company is not known to pay dividends. We need to price a call option with a strike of \$45 matering in 4 months. The Continuously - Compounded Pisk-Free Pate is 3% byen the mean return on the stock is Polyear, and the standard deviation of the stock return is 40% your What is the Black-Scholes Call Price? alded natificates with no Solution addison will - 1811 KEY TAKEAWAY * The standard Black - Scholes model is only Used to Price EUROPEAN options and Loes not take into account that I.S options could be exercised before the expiration doiber But never the less, we would go on with the Calculation.



$$V_{1} = 445$$
 $V_{2} = 445$
 $V_{3} = 400$
 $V_{4} = 3\% = 0.03$
 $V_{4} = 3\% = 0.03$
 $V_{4} = 0.4$
 $V_{5} = 40\% = 0.4$
 $V_{7} = 0.11778 + 0.036667$
 $V_{7} = 0.23094$
 $V_{7} = 0.35123 - 0.23094$
 $V_{7} = 0.58217$

from the distribution bable attached for d1 24 = , x M(-0.35) - 0.3632 NC-0.35123) - 2 M(-0.36) - 0.3594 Finding & using Interpolation 2-0.3594 = -0.35123 +0.36 0.3632-0.3594 7 30.35 +0.36 0.01 × = 3.594×10-3 = 3.3326×10-5 0.012 = 3-3326 × 10-5 3.594 × 103 oc = 6.3627 : NCd1) = 0.3627 1.088.0 For da 80.0. M(-0.59) - 0.2776 M(-0.58217) - re n(-0.58) -0.2810

		Cumula	itive Are	a Under the Sta	iliualu iv	Ulliai Distil
D	N(d)	D	N(d)	D	N(d)	
-3.00	0.0013	-0.99	0.1611	-0.28		0 0 1
-2.95	0.0016	-0.98	0.1635	-0.27		
-2.90	0.0019	-0.97	0.1660			
-2.85	0.0022	-0.96	0.1685			
-2.80	0.0026	-0.95	0.1711	-0.24		
-2.75	0.0030	-0.94	0.1736		The second secon	
-2.70	0.0035	-0.93	0.1762	-0.22		
-2.65	0.0040	-0.92	0.1788	-0.21	0.4168	
-2.60	0.0047	-0.91	0.1814			
-2.55	0.0054	-0.90	0.1841	-0.19		6 9 9
-2.50	0.0062	-0.89	0.1867	-0.18		
-2.45	0.0071	-0.88	0.1894			
-2.40	0.0082	-0.87	0.1922	-0.16		
-2.35	0.0094	-0.86	0.1949			
-2.30	0.0107	-0.85	0.1977	-0.14		
-2.25	0.0122	-0.84	0.2005			
-2.20	0.0139	-0.83	0.2033			
-2.15	0.0158	-0.82	0.2061	-0.11		
-2.10	0.0179	-0.81	0.2090	-0.10		
-2.05 -2.00	0.0202 0.0228	-0.80 -0.79	0.2119			
-1.98	0.0228	-0.79	0.2148	-0.07		
-1.96	0.0259	-0.77	0.2177			
-1.94	0.0250	-0.76	0.2236			
-1.92	0.0274	-0.75	0.2266			
-1.90	0.0274	-0.74	0.2296			
-1.88	0.0301	-0.73	0.2327	-0.02		
-1.86	0.0314	-0.72	0.2358			
-1.84	0.0329	-0.71	0.2389			
-1.82	0.0344	-0.70	0.2420			
-1.80	0.0359	-0.69	0.2451	0.02		
-1.78	0.0375	-0.68	0.2483			
-1.76	0.0392	-0.67	0.2514		A STATE OF THE PARTY OF THE PAR	
-1.74	0.0409	-0.66	0.2546	0.05		
-1.72	0.0427	-0.65	0.2578	0.06	0.5239	
-1.70	0.0446	-0.64	0.2611	0.07		
-1.68	0.0465	-0.63	0.2643	0.08	0.5319	
-1.66	0.0485	-0.62	0.2676	0.09	0.5359	
-1.64	0.0505	-0.61	0.2709	0.10	0.5398	
-1.62	0.0526	-0.60	0.2743	0.11	0.5438	
-1.60	0.0548	-0.59	0.2776	0.12		
-1.58	0.0571	-0.58	0.2810	0.13	and the common of the common o	
-1.56	0.0594	-0.57	0.2843	0.14	The second secon	
-1.54	0.0618	-0.56	0.2877	CONTRACTOR OF THE PROPERTY OF		
-1.52	0.0643	-0.55	0.2912	- Andrew Control	The second secon	
-1.50	0.0668	-0.54	0.2946	The second secon	The second secon	
-1.48	0.0694	-0.53	0.2981	0.18		
-1.46	0.0721	-0.52	0.3015			
-1.44	0.0749	-0.51	0.3050			
-1.42	0.0778	-0.50	0.3085			
-1.40	0.0808	-0.49	0.3121	0.22		
-1.38 -1.36	0.0838	-0.48 -0.47	0.3156			
-1.34	0.0869	-0.47	0.3192			
-1.34	0.0901	-0.45	0.3228	0.26		
-1.32	0.0934	-0.44	0.3264	0.27		
-1.28	0.1003	-0.43	0.3336			
-1.26	0.1003	-0.42	0.3372	0.29		
-1.24	0.1036	-0.41	0.3409			
-1.22	0.1075	-0.40	0.3446	0.000000		
-1.20	0.1151	-0.39	0.3483	100000000	Company of the second s	
-1.18	0.1190	-0.38	0.3520			-
-1.16	0.1230	-0.37	0.3557	0.34		
-1.14	0.1271	-0.36	0.3594	0.35		
	0.1314		0.3632	0.36		
-1.12	0.1314	-0.35	0.303/	U.ac	U.D4UD	

= -0.58217 +0.59 2-0.2776 -0.58 +0.59 0.2810-0.2776 = 7.83 × 10-3 20-0.2776 3.4410-3 0.01 0.012-2.776/10-3=2.6622/10-5 0.012 = 2.802622 × 10-3 2 = 0.28026 M(d2) = 0.28026 Vc = 40 × 0.3627-45. 45 7× 0.28026 \approx 14.508 \pm - (44-5522) \neq 0-28026 2 14.508 - 12.4862 × \$2.0218