	by Taylor's of y(ti+1) = y(t	ti+1) = y(ti) +h·l	
t	Euler	Taylor	Exact
1.0 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9	0.000000 0.100000 0.209917 0.330471 0.462354 0.606285 0.763041 0.933475 1.118537 1.319293 1.536943	0.000000 0.105000 0.220919 0.348612 0.488954 0.642883 0.811438 0.995787 1.197252 1.417344 1.657795	0.000000 0.105160 0.221243 0.349121 0.489682 0.643875 0.812753 0.997494 1.199439 1.420116 1.661282
2 . U ( =	9 u, + 24 uz	+ 5 co st - 1/3 si	nt, u10) = 4
		-905t + 1/3 si	

$U_1 = 2e^{-3t} - e^{-39t} + \frac{1}{3} \cos t$	$Wi = [u_1(i)]$
Uz = -e <sup>-3t</sup> + ze <sup>-39t</sup> - \frac{1}{3} cost	$k_1 = hu'(ti, wi)$ $k_2 = hu'(ti + \frac{h}{\epsilon}, Witki)$
by Runge - Kutta method  h = 0.05	$k_3 = h u' (tit \frac{h}{2}, Witkz)$ $k_4 = h u' (tit 1, Witks)$
h = 0.	Wi+1 = Wi + b (K1+2k2+2k3+k4)
=== Error Table for h = 0.05 === t RK4 u1 Exact u1 Error	in u1 RK4 u2 Exact u2 Error in u2

=== Error Table for h = 0.05 ===									
t	RK4 u1	Exact u1	Error in u1	RK4 u2	Exact u2	Error in u2			
0.00	1.333333	1.333333	0.000000	0.666667	0.666667	0.000000			
0.05	1.721880	1.912059	0.190178	-0.499599	-0.909077	0.409477			
0.10	1.726915	1.793063	0.066148	-0.832598	-1.032002	0.199405			
0.15	1.617161	1.601967	0.015194	-0.890373	-0.961459	0.071086			
0.20	1.481687	1.423902	0.057785	-0.861042	-0.874681	0.013639			
0.25	1.348945	1.267646	0.081299	-0.807505	-0.795221	0.012284			
0.30	1.227063	1.131577	0.095487	-0.750341	-0.724999	0.025342			
0.35	1.117478	1.012999	0.104480	-0.695886	-0.663060	0.032826			
0.40	1.019525	0.909409	0.110117	-0.645732	-0.608214	0.037518			
0.45	0.931977	0.818630	0.113347	-0.599934	-0.559389	0.040545			
0.50	0.853541	0.738788	0.114753	-0.558092	-0.515658	0.042435			
0.55	0.783017	0.668275	0.114743	-0.519706	-0.476225	0.043482			
0.60	0.719337	0.605710	0.113627	-0.484290	-0.440411	0.043880			
0.65	0.661560	0.549909	0.111651	-0.451407	-0.407635	0.043772			
0.70	0.608868	0.499860	0.109007	-0.420673	-0.377404	0.043269			
0.75	0.560547	0.454695	0.105852	-0.391754	-0.349296	0.042459			
0.80	0.515980	0.413671	0.102309	-0.364365	-0.322954	0.041411			
0.85	0.474633	0.376158	0.098475	-0.338259	-0.298076	0.040183			
0.90	0.436043	0.341614	0.094428	-0.313226	-0.274409	0.038817			
0.95	0.399812	0.309583	0.090229	-0.289089	-0.251739	0.037351			
1.00	0.365600	0.279675	0.085925	-0.265698	-0.229888	0.035810			

=== Error Table for h = 0.1 === t RK4 u1 Exact u1 Error in u1 RK4 u2 Exact u2 Error in u2 0.00 1.333333e+00 1.333333e+00 0.000000e+00 6.666667e-01 6.666667e-01 1.110223e-16 -3.052437e+00 1.793063e+00 4.845500e+00 8.989305e+00 -1.032002e+00 1.002131e+01 0.10 -2.384779e+01 1.423902e+00 2.527170e+01 5.119270e+01 -8.746810e-01 5.206739e+01 0.20 0.30 -1.301652e+02 1.131577e+00 1.312968e+02 2.692692e+02 -7.249986e-01 2.699942e+02 0.40 -6.802315e+02 9.094086e-01 6.811409e+02 1.399369e+03 -6.082142e-01 1.399977e+03 0.50 -3.531300e+03 7.387878e-01 3.532038e+03 7.258242e+03 -5.156577e-01 7.258757e+03 -1.831280e+04 6.057096e-01 1.831340e+04 3.763496e+04 -4.404108e-01 3.763540e+04 0.60 0.70 -9.495133e+04 4.998603e-01 9.495183e+04 1.951319e+05 -3.774038e-01 1.951322e+05 0.80 -4.923065e+05 4.136715e-01 4.923069e+05 1.011722e+06 -3.229535e-01 1.011722e+06 0.90 -2.552514e+06 3.416143e-01 2.552514e+06 5.245579e+06 -2.744088e-01 5.245579e+06 1.00 -1.323428e+07 2.796749e-01 1.323428e+07 2.719729e+07 -2.298878e-01 2.719729e+07

+0