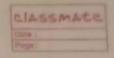
Assignment No. 10



Title: find roots of quadratic equation

problem statement:

equation. All possible cases must be consistered in cataloting the roots

objective :

To be able to solve mathematical problems in

Out come

student will be efficient in handling & solving mother mutical problemy using ALP.

slw & hlw requirements.

processor - core durl 13/15/17

OS - linux 82/164 bit

Editor - gedit

Ossembler - NASM

debugger - qdb

theory -

80387 microproverses -

South is the first intel coprocesses to be
fully compliant with the TEER 754-1985
standard released in 1987, a full years
ofter 386 chip the 1387 includes much
improved coed over intel 's previous 80871
80287 coprocesser & improved characteristics
of its trignometric functions.

The 8087 & 80287 is FPJ AP and FPATANI
one limited to an argument in the
range + TI 4 (± use) & 8027 & 80287
have no direct instruction for the Sin &
cos functions.

without a reprocessor 384 normally performs
fluating point arithmetic through
31w rounting implemented at rounting
through a slw exception handles.

The 1387 is computable only with standard 1386 chip which is a 32-bit processor but the later cost reduce 1386) which has narrower 16-bit data but can't interface with 1387 32-bit buy

CIASSMATE Instruction Rt: All instruction of 80386 mov JC, JMC, JMZ,
TZ , PUSH, PUP, JMC, (MP, ADD, ETC, aH is used in this program. Algorithm -1) write msg to enter the quadratic eqn.
2) write msg to enter 1st coefficient a
3) Read first coefficient. 4) convert my from ascii to hex. 5) write msg to enter 2nd coefficient b 6) Read 2nd coefficient 7) convert it into hax D write msg to enler 3rd coefficient c D Read 318 cuefficient 10) convert it in hex 11) formula x = -b+ Tb2-4ac 12) Identify value of a,b,c in eqh, a is coefficient of x2, b is of x & c is corntant.

13) substitute it into equation / formula to find quadratic egh remaining operation to simplify the, -ve sight of square of remaining terms

Ś.	CIASSMATE Date:
	[Page:
	1 a under the
	simplify square root of the number under the radical symbol is the perfect square, you will get whole no. 5.
	radical symbol is the period
	det mysk Va.)
	(c) convert final rout into ascii
	(a) convert final routs into ascii (7) print final routs real & imaginary.
	(onlly10h:
	They not of quadratic egh are calculated &
	Thus posts of quadratic egh are calculated & also understand 80387 instruction sets.
	Levellen de Barto de Caralle
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