Hssignment - 10 GoodLuck From No.
Title :- Roots of equation.
Problem defination :-
roots of quadratic equation, All possible cases must be considered.
objective:
-Pen set is) to understand is to op of floating point numbers.
5/w requirement:- Text editor, Axembler
(NASM), compiler (GCC), Debuger.
Theory :- 1) 80389 is the math coprocessor
West of the second seco
The le used to theat ha paint
operation in assembly.
format as torrows
79 78 64
s Expo Mantisa
63 0
1 bit - Sign
is hit - Expanant
64 bit - Mantisa

Secretary and Property

The top of the stack can be accessed as sto' stally, lower element as 'Still, 'stall, and

3.69 + 540 1-34 + 541 13.45 + 6+2

Input floating point numbers to done by dusting the help of prints of scanf functions of c as global variables

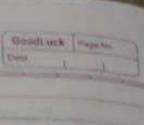
The program can be compiled as goo to outputfrie object frie

Final calculation = -b + Thi-was

- 1) FINIT To Potentize 327 stack
 2) FSUB ver to substract value from
- 3) PADD yes to add value var to top
- of stack ex fron quantity).

 I FIMUL vor to multiply totages was to
 top of stack ex. FIMUL downd [for
- 3 FMUL vor to multiply front value vor
- 9 PSORT calculate who of stones it back at the top.

Constitute out TI TOIL van - devides was form top of 2) FLD sax - Londs value var at repet a) for your - stores value of top to your 16) FETP was Stores value date top to vace and pape value from black Algorithms :calculate sects. 1) Intitaltie stock. is hand a on top of shack 3) Multiply e to the topofstack 4) couldiply 4 to the top of stack s) pop this value to presentle 4 ac 6) load to on top of stock 7) Multiply it with itself 2) Store value of variable say be 9) substract une from top 10) Pop this value to do 11) these sign of dd, if regative set flagel & chang the bit value 12) load dd & perform squareroot, pop this value to 'd' 13) load a on top, multiply 2 to 14 (4) pop value to 2a 15) Load d'on top of stock If Floger 16) Sub & from top 17) odd d (2) divide 2a 19) Display value & perform similarly for otherene



16) sub b from top

17) divide 20, this is real post, pop value

18) Add d to top adjuste an imaginary

19) Display both weal & Transpirary pasts

4 perform operation to a other roll

Print values of both mosts.

amalusian :-

scanf of 387 math coprocessor, we were able to calculate the roots of an aquation.