

Q.1) Find a student average mark given mark 1 and mark 2 ?

step 1: start

step 2: Declare variables mark1, mark2, average

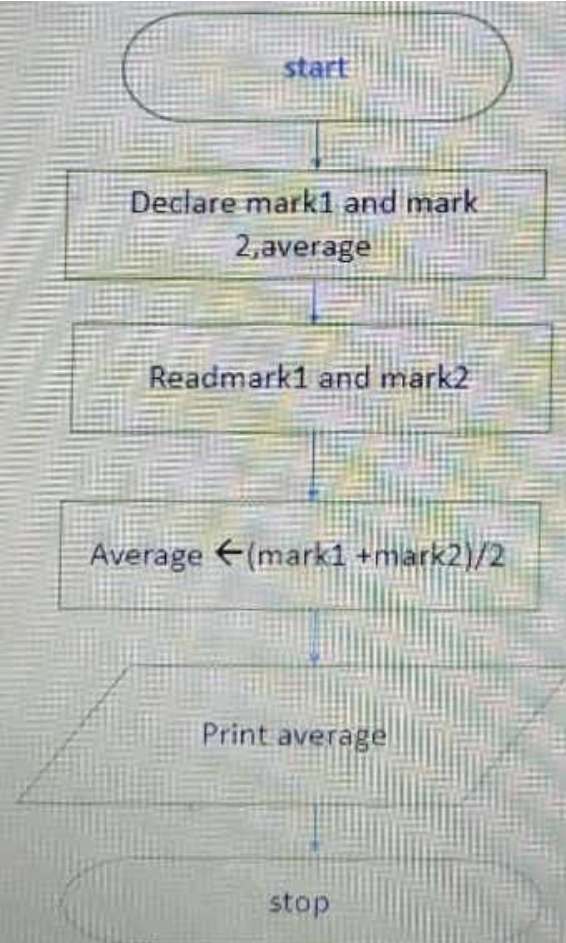
step 3: read variables

step 4: add mark1 and mark2 and divide by 2 and assign to
average.

$$\text{average} \leftarrow (\text{mark1} + \text{mark2}) / 2$$

step 5: display average

step 6: stop



Q.2) Calculate the total fine charged by library for late returns books. The

charge is 0.20 INR for 1 day ?

step 1: start

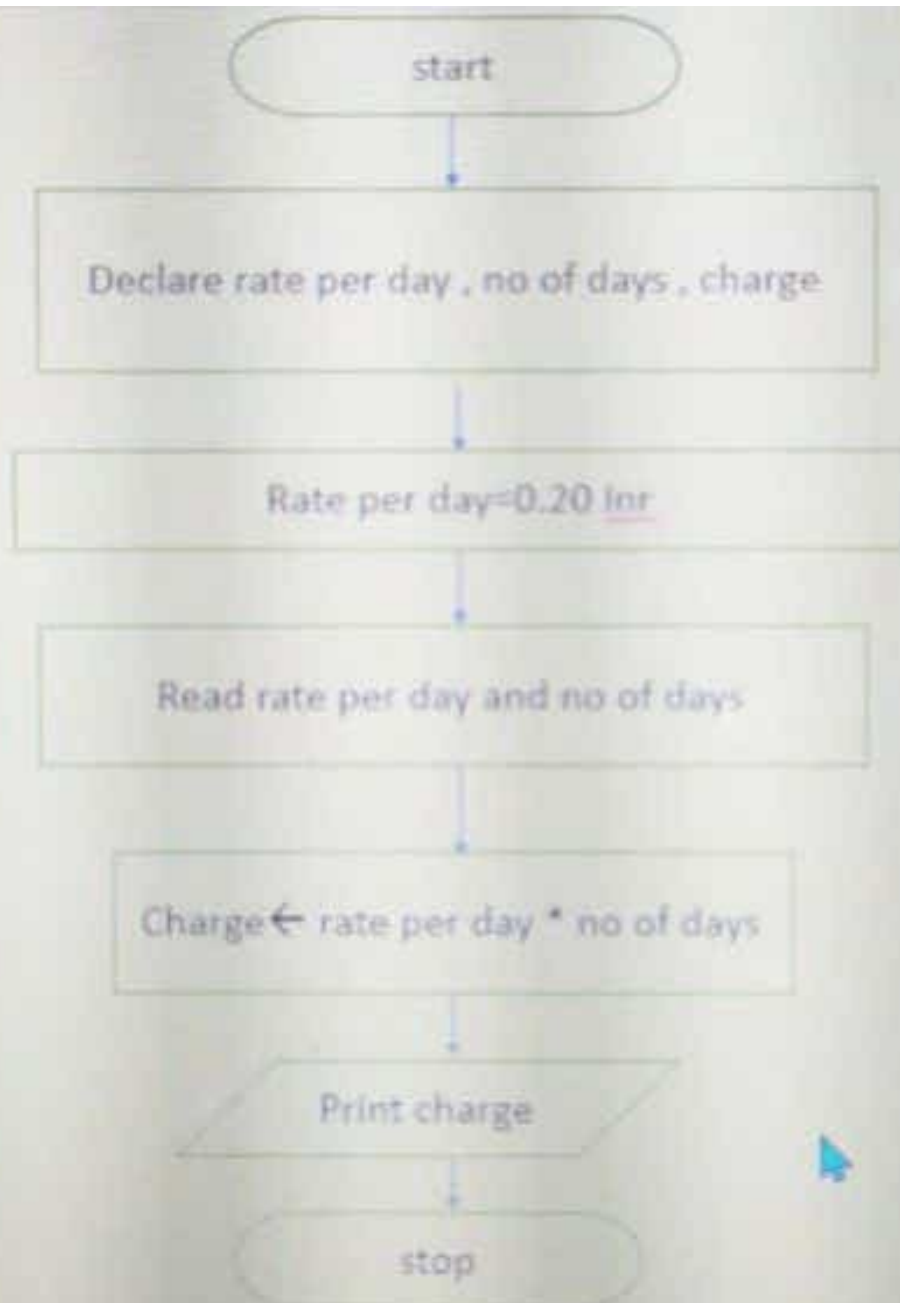
step 2: declare amount per day, no of days and charge

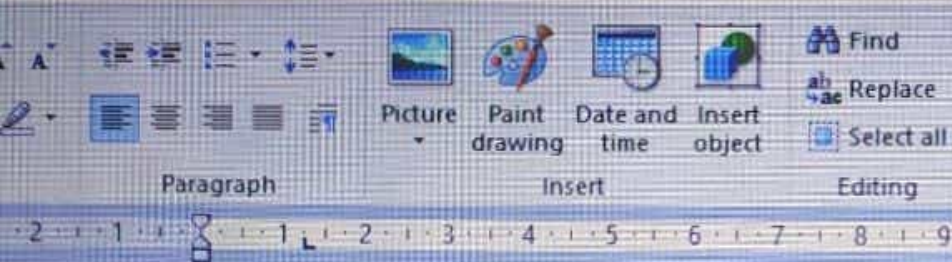
step 3: initialize amount = 0.20 per one day **I**

step 4: $\text{charge} \leftarrow \text{amount per day} * \text{no of days}$

step 5: display charge

step 6: stop





Q.3) You bought a nice shirt which cost Rs 29.90 with 15% discount, count

the net price for the shirt ?

step 1: start

step 2: declare cost, discount cost, discounted cost, net price

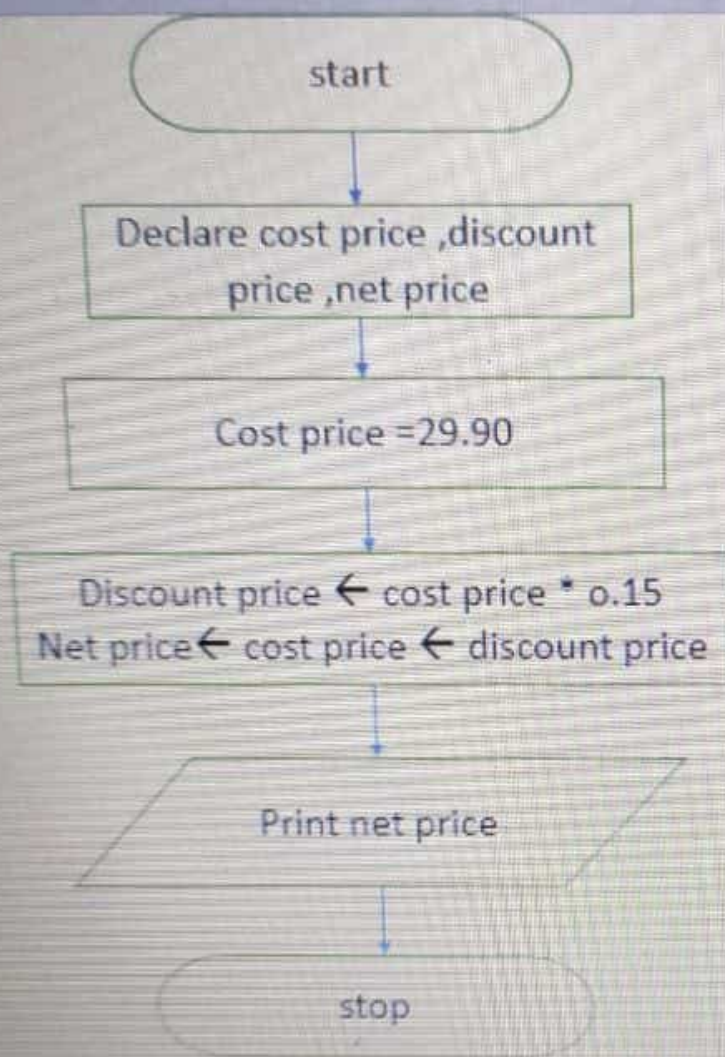
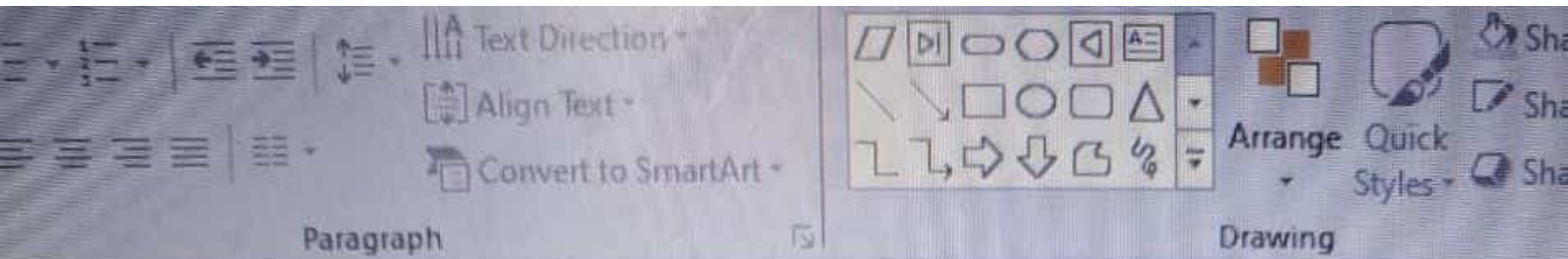
step 3: initialize cost = 29.90 and discount = 15%

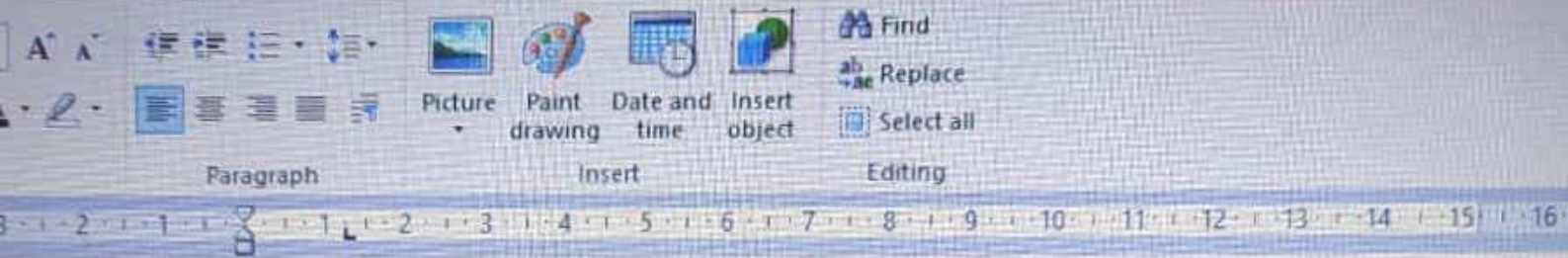
step 4: discount cost = $0.15 * \text{cost}$

net price = $\text{cost} - \text{discount cost}$

step 5: display net price

step 6: stop





Q.4) Find the smallest number among three different number ?

step 1: start

step 2: declare variable x, y, z

step 3: if $x < y$

$x < z$, display x is the smallest number

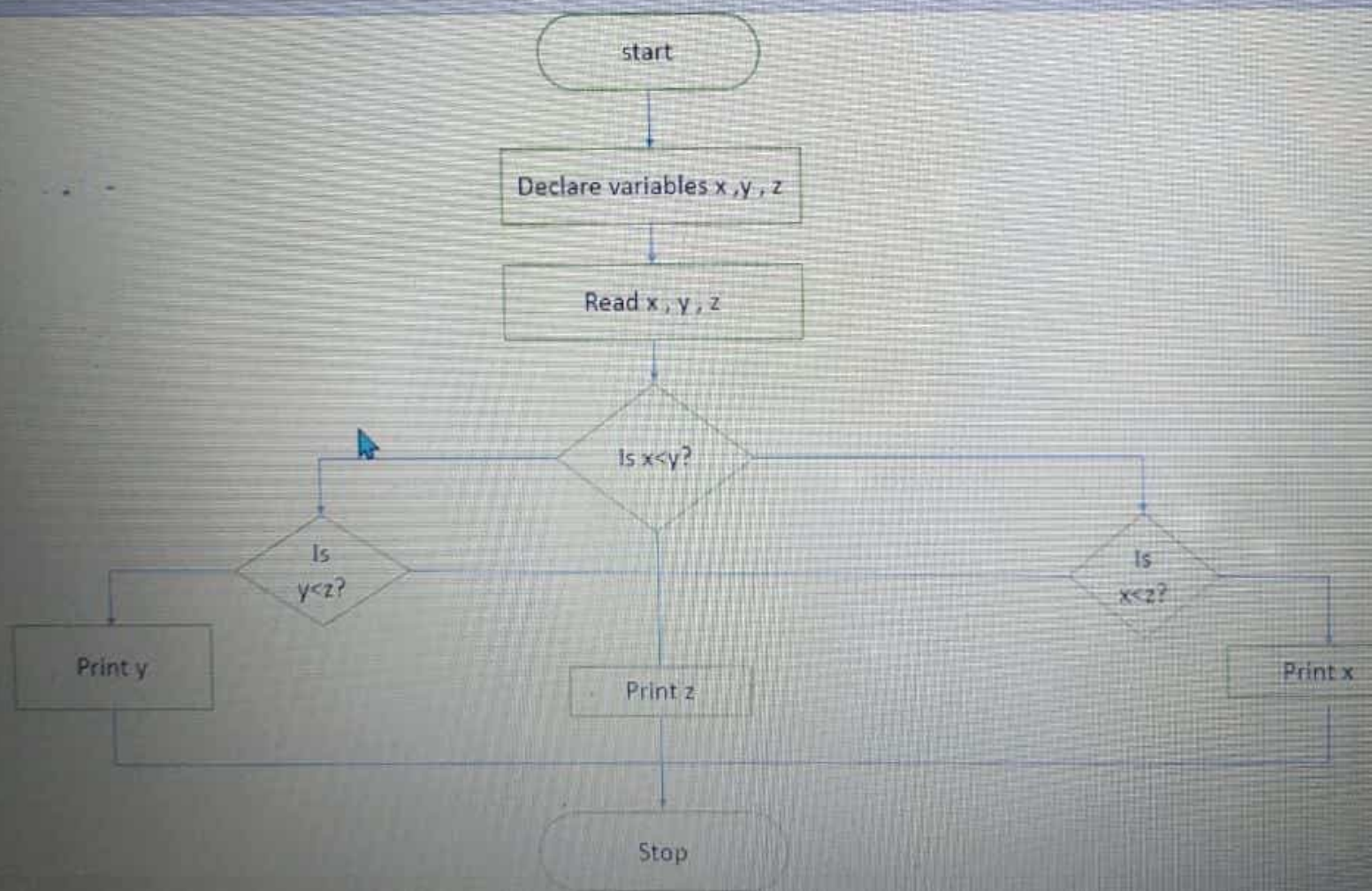
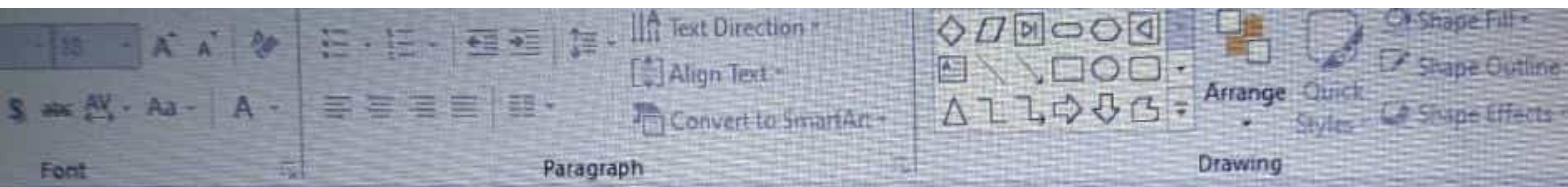
else display z

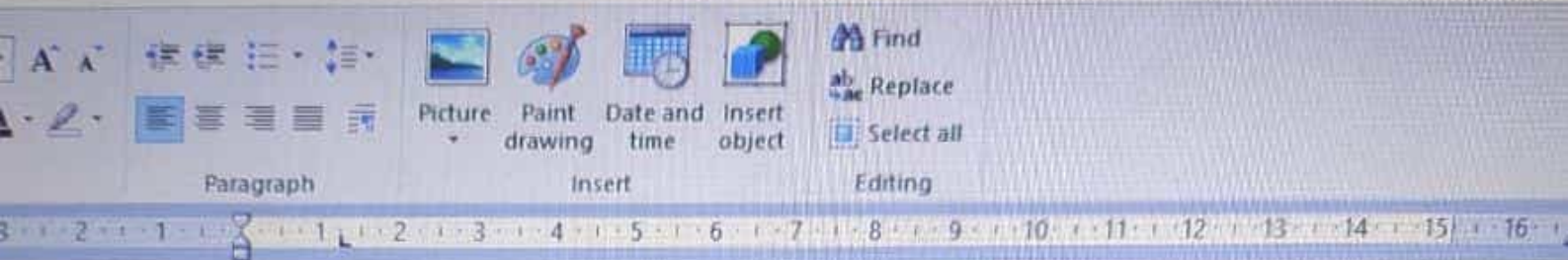
step: 4: else $y < z$

display y is the smallest

else display z is the smallest

step 5: stop





Q.5) Roots of quadratic equation $ax^2 + bx + c$.

step 1: start

step 2: declare x, root

step 3: initialize a, b, c

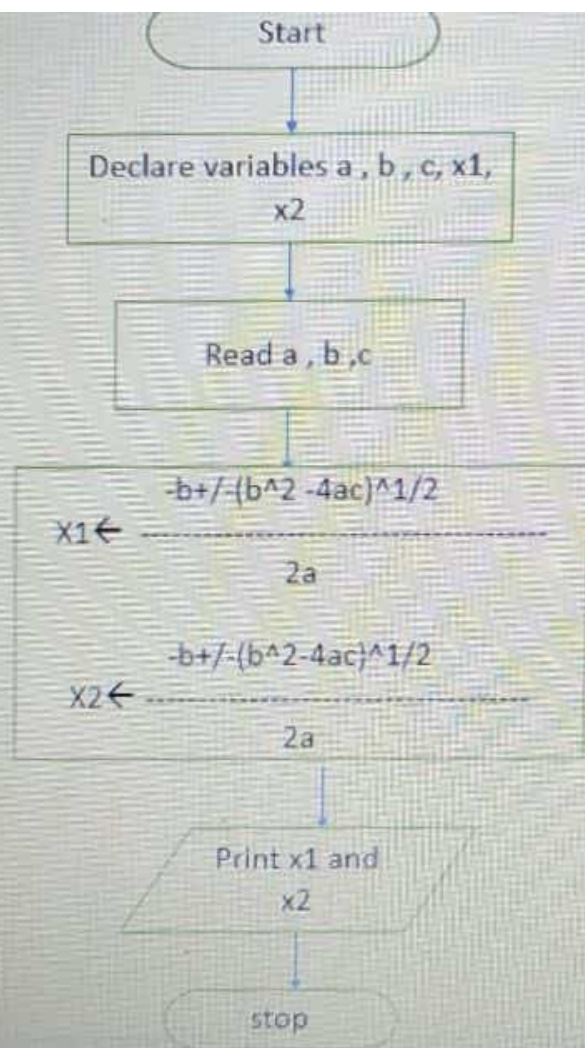
step 4: $-b \pm (b^2 - 4ac)^{1/2}$

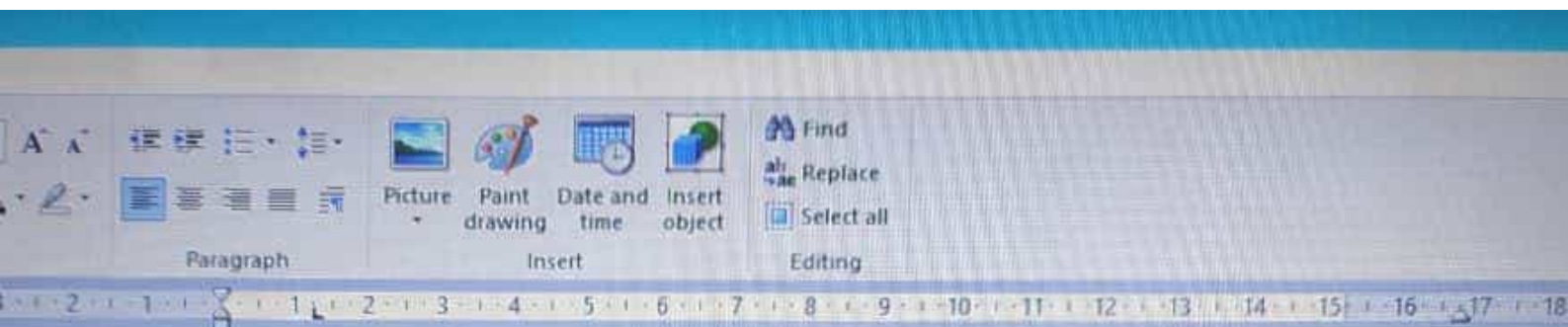
$$\text{root} = \frac{-b \pm (b^2 - 4ac)^{1/2}}{2a}$$

step 5: display root

step 6: stop







Q.6) Find the factorial for given number

step 1: start

step 2: declare num, fact

step 3: initialize fac.=1

step 4: $\text{fact} \leftarrow \text{num} * \text{fact}$

step 5: num

step 6: repeat step(4) and (5), still num=1

step 7: display num

step 8: stop



