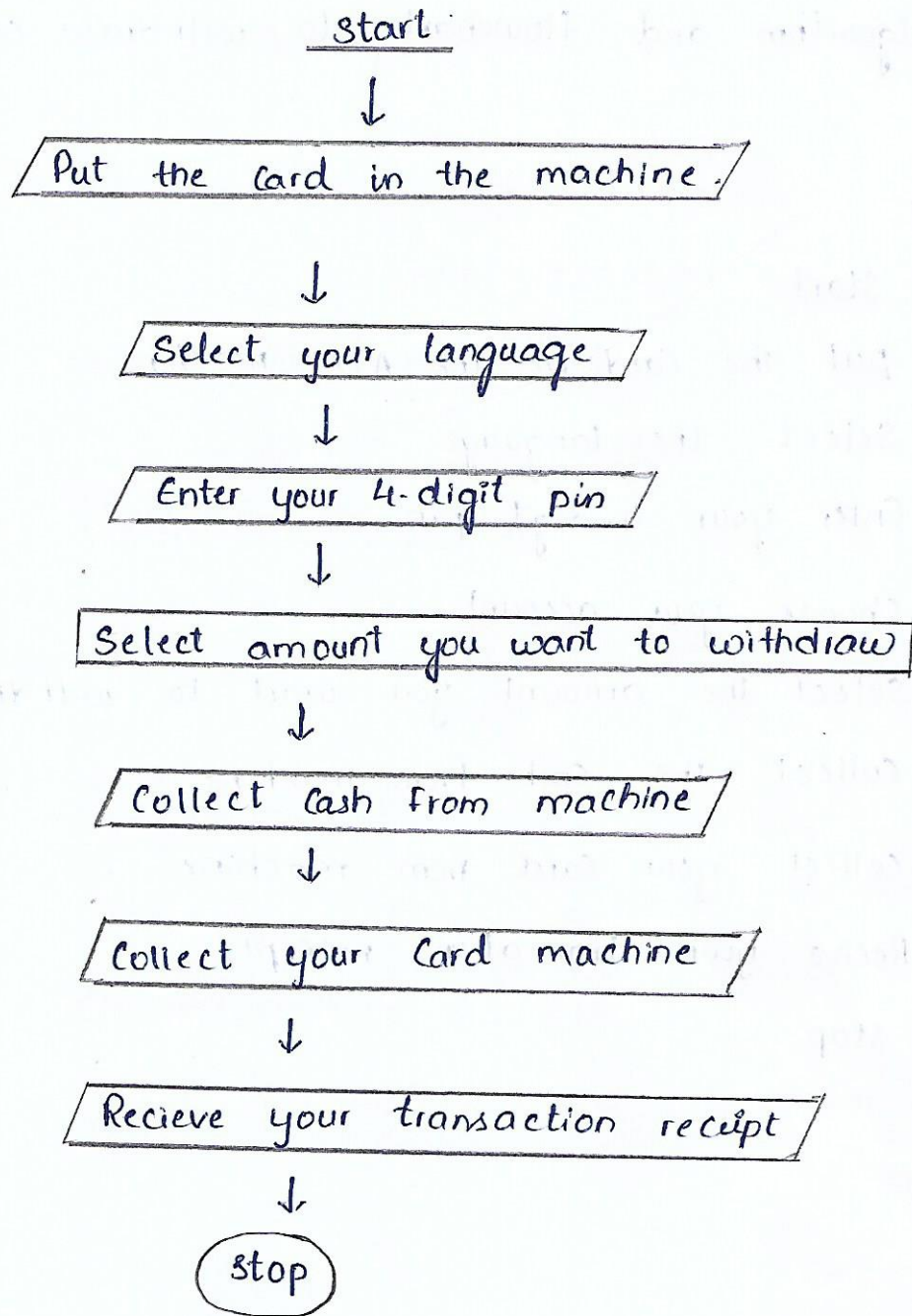


1) Design an algorithm and flowchart to withdraw cash at atm.

Ans: Algorithm:

- Step 1 : Start
- Step 2 : Put the Card in the ATM machine
- Step 3 : Select the language
- Step 4 : Enter your 4-digit pin
- Step 5 : Choose your account
- Step 6 : Select the amount you want to withdraw
- Step 7 : Collect the cash from machine
- Step 8 : Collect your Card from machine.
- Step 9 : Recive your transation receipt
- Step 10 : stop.

FLOW CHART



2) Design an algorithm to find circumference of circle in modular way. use raptor to execute flow chart.

Ans

Algorithm: Main

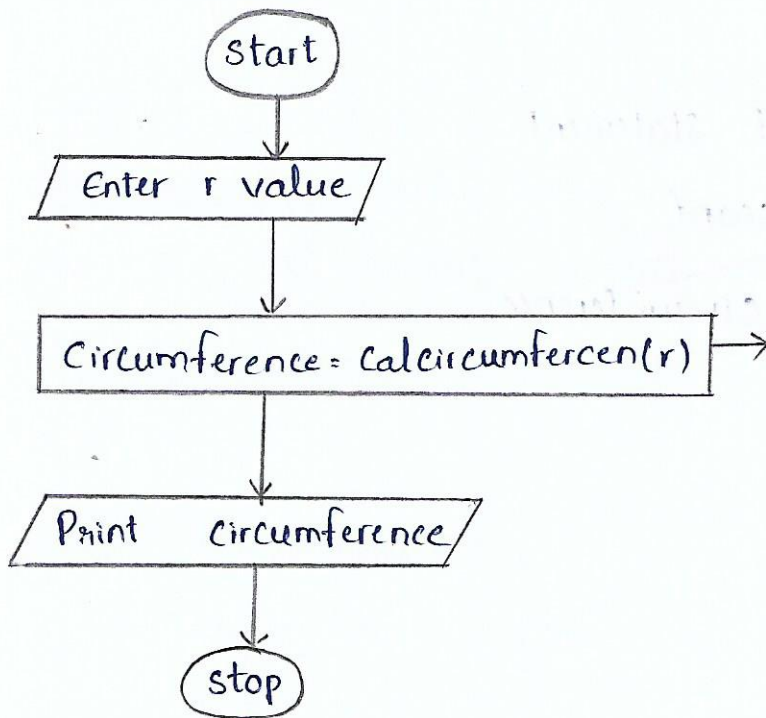
- Step 1: Start
- Step 2: Enter r value by printf statement
- Step 3: Scanning r value by scanf
- Step 4: ~~De~~ Calling module "CalcCircumference".
- Step 5: print circumference.
- Step 6: stop.

Algorithm: CalcCircumference

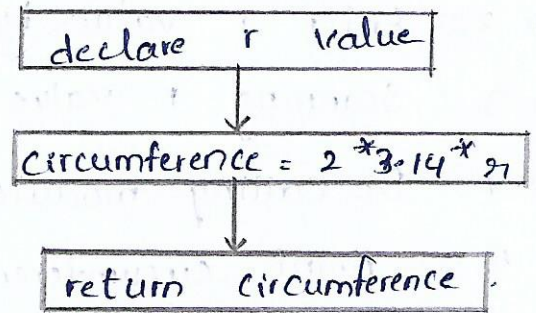
- Step 1: declare r value, declare circumference.
- Step 2: $Circumference = 2 * 3.14 * r$.
- Step 3: return circumference value to main module.

Flowchart by Raptor tool

Flowchart : main



Flowchart : calcircumference



3) Design an algorithm in modular way to convert inch into cm. use raptor tool to use flowchart.

Ans:

Algorithm: main

Step 1 : start

Step 2 : Enter value in inch

Step 3 : Call module calcm(inch)

Step 4 : print centimeter

Step 5 : Stop

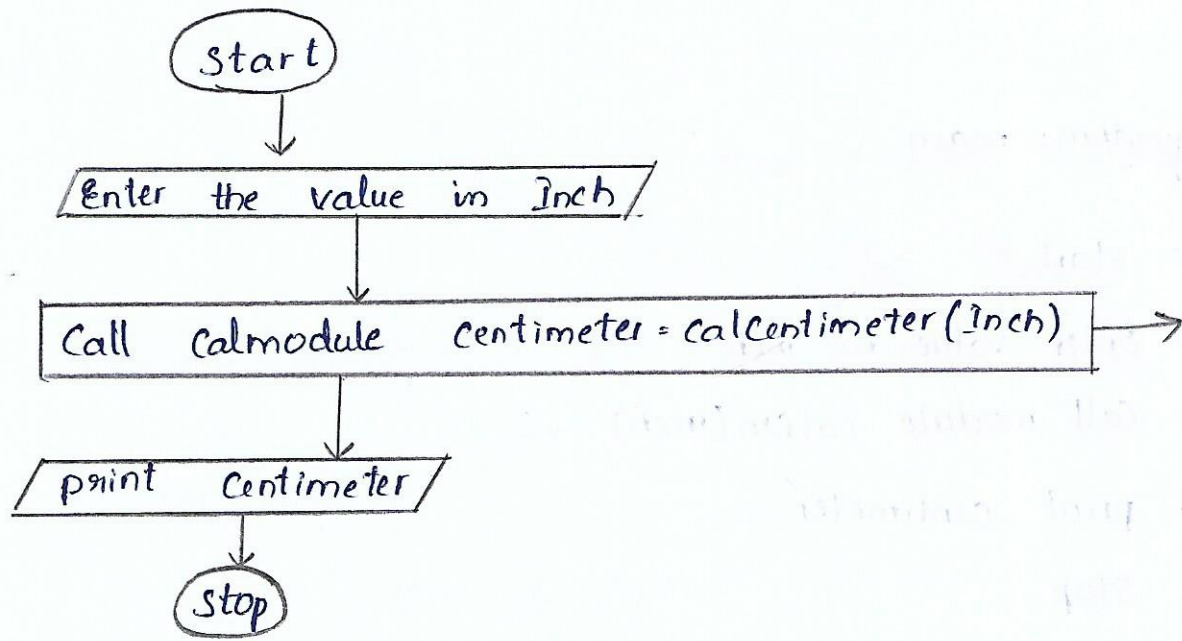
Algorithm : calcm

Step 1 : declare ~~inches~~ cm

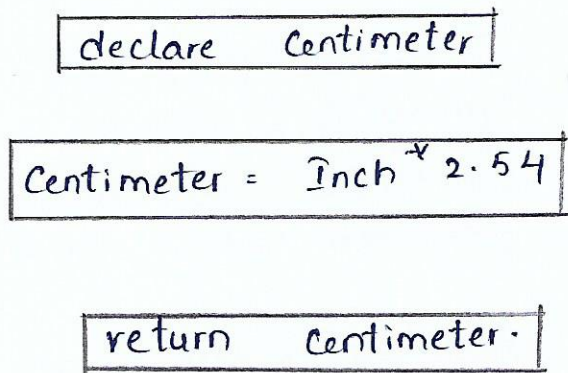
Step 2 : ~~inches~~ = cm = inch * 2.54

Step 3 : return cm:

Flowchart : main



flowchart : calcentimeter.



4) write an algorithm in a modular way that takes input - price of item (P), years of service (Y) and Expected Salvage value (S), yearly discription (D).

$$D = (P - S) Y$$

use raptor to draw flowchart.

Ans

Algorithm: main

Step 1: start

Step 2: Read the values of P, S, N

Step 3: call module calyearlydiscription

Step 4: print yearly discription

Step 5: stop

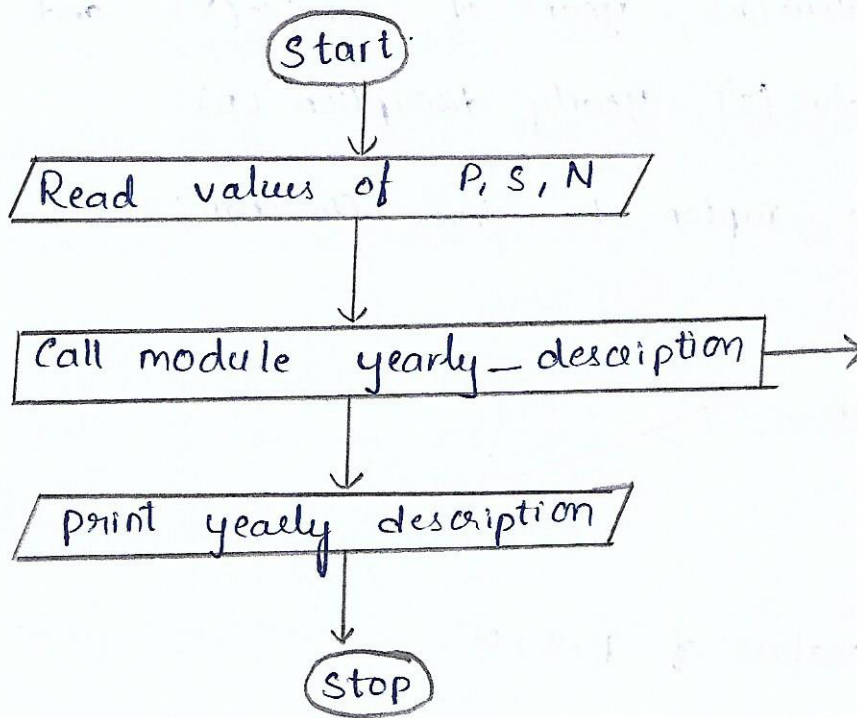
Algorithm: calyearlydiscription

Step 1: Declare yearlydescription

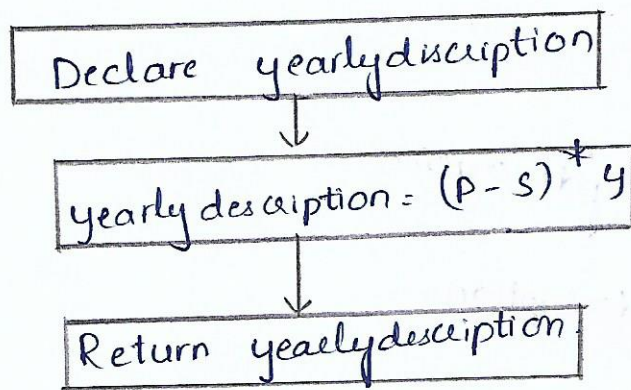
Step 2: $\text{yearlydescription} = (P - S) \times Y$

Step 3: return yearlydescription.

flowchart : main



flowchart : calyearlydescription



5) Design an algorithm in modular way and draw flow chart using raptor tool for the most economical quantity to stocked for each product that a manufactured company has it's inventory. Calculate Economic order quantity as $EOQ = 2rs/I$ where r is yearly requirement, s is set up cost per order, I is Inventory carrying Cost per unit.

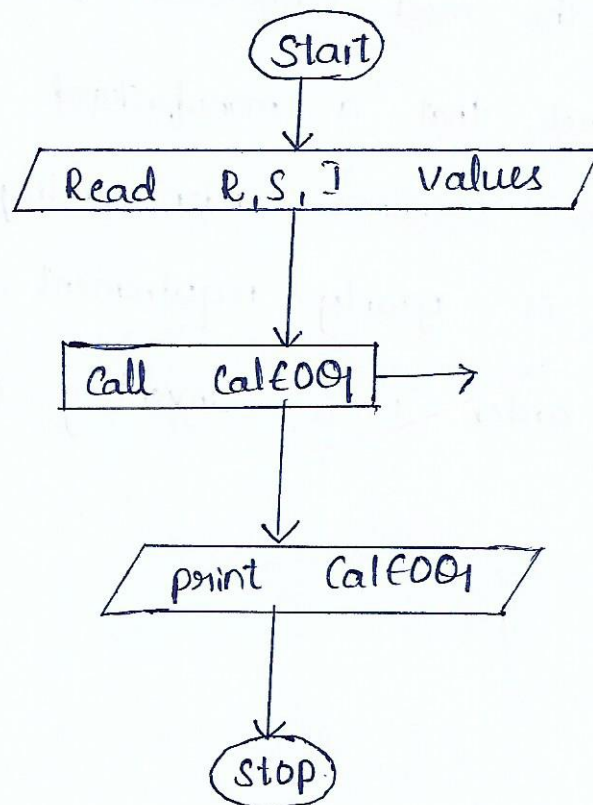
Ans Algorithm: Main

- Step 1 : Start
- Step 2 : Read R, S, I values
- Step 3 : Call Calmodule "CalEOQ"
- Step 4 : print CalEOQ
- Step 5 : Stop.

Algorithm: CalEOQ

- Step 1 : Read R, S, I values, Declare EOQ
- Step 2 : $EOQ = R * S / I$
- Step 3 : Return EOQ.

Flowchart : MAIN



flowchart : calcEOQ

