

1. Write an algorithm and flow chart to print “Adamas University”

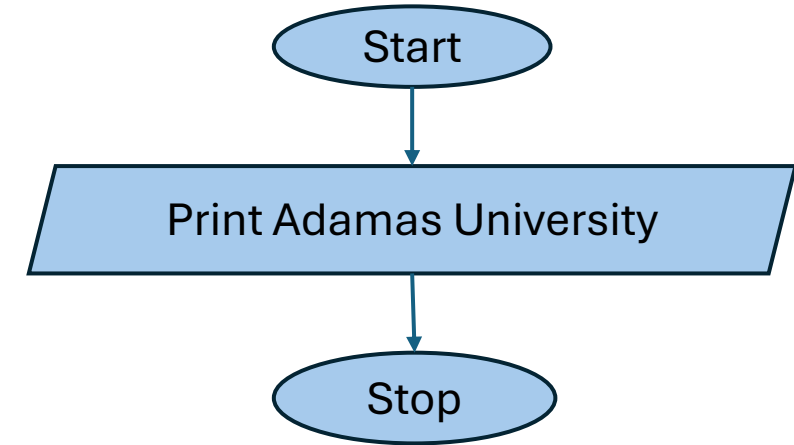
- Pseudo code

Step 1. Start

Step 2. Print ”Adamas University”

Step 3. Stop

- Flowchart



2. Print sum of two float value

- Pseudo code

Step 1. Start

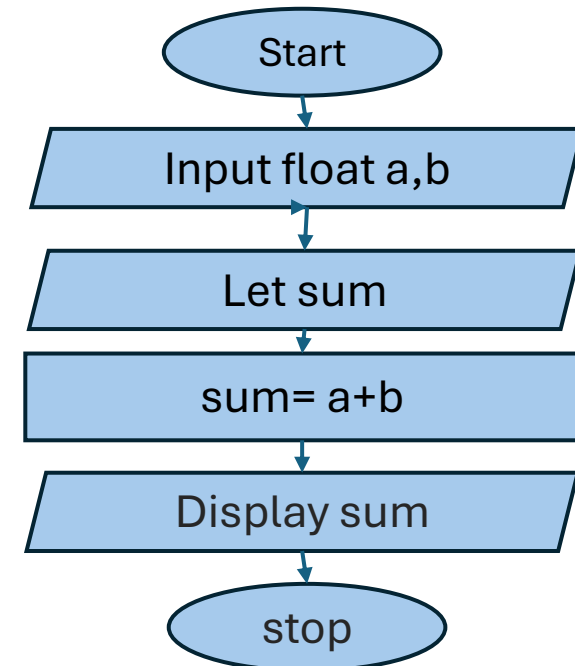
Step 2. Input float a,b

Step 3. Let sum= a+b

Step 4. display sum

Step 5. stop

- Flowchart



3. Print difference between two no

- Pseudocode

Step1. Start

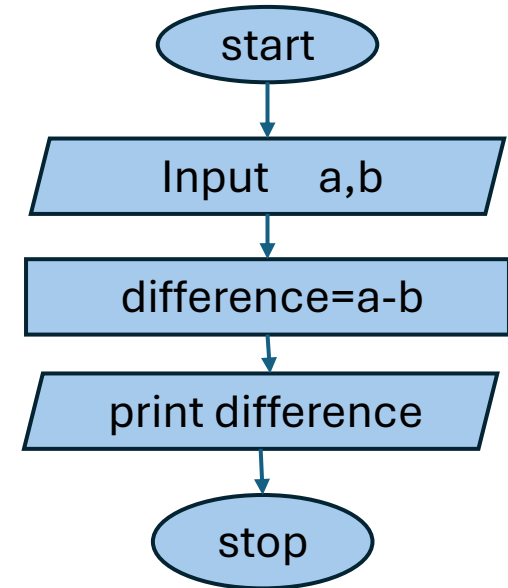
Step2. Input a,b

Step3. Difference= a-b

Step4. Print difference

Step5. Stop

- Flowchart



4. Print ASCII value

- Pseudocode

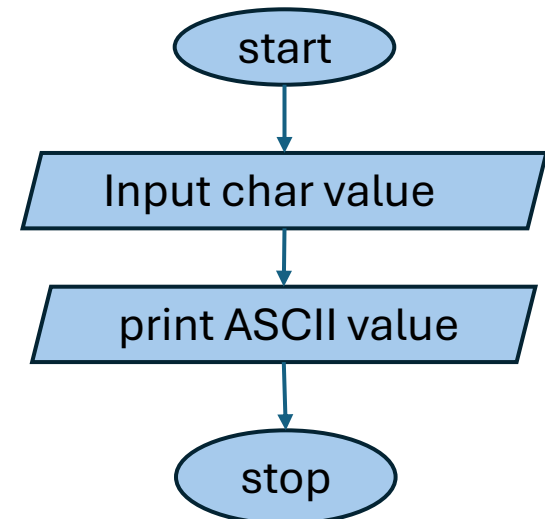
Step1. Start

Step2. Input char value

Step3. Display ASCII value

Step4. Stop

- Flowchart



5. Print multiplication table

- Algorithm

Step1. Start

Step2. Input n

Step3. Let m, i=1

Step4. If $i \leq 10$ go to step 5 otherwise go to 8

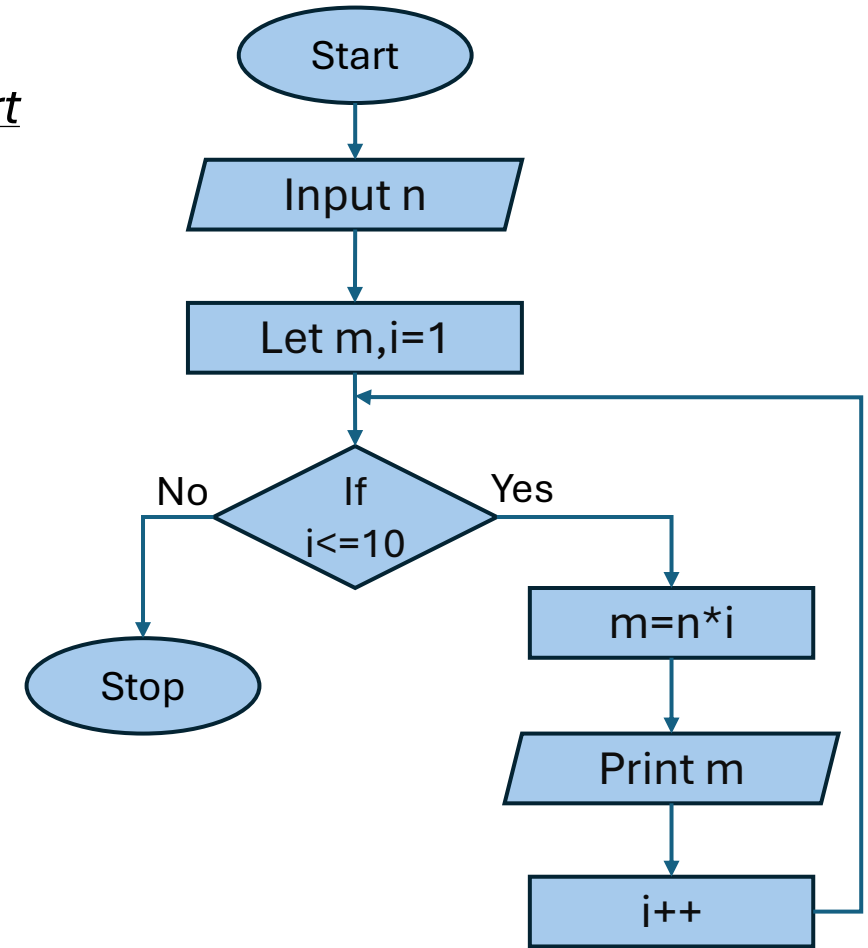
Step5. $m = n * i$

Step6. Print m

Step7. $i++$,go to step 4

Step8. Stop

- Flowchart



6. Calculate simple interest

- Pseudocode

Step1. Start

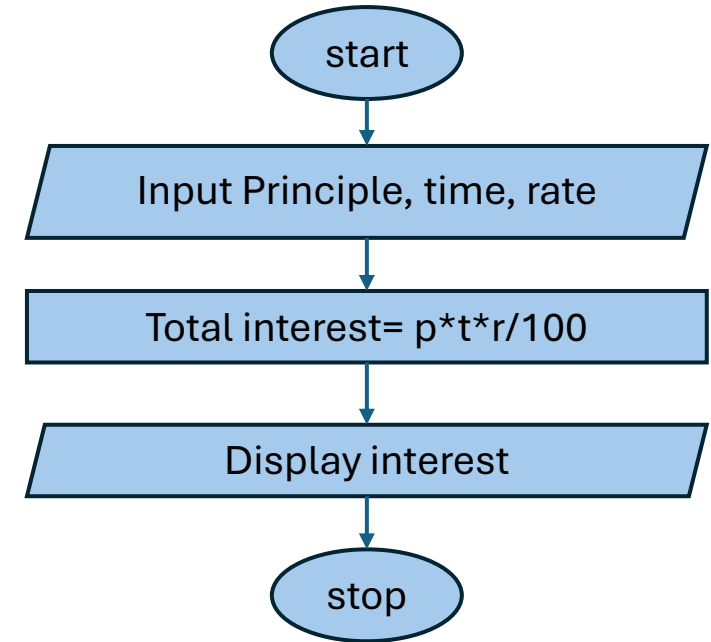
Step2. Input principal, time ,rate

Step3. Total interest= $p \times t \times r / 100$

Step4. Display Total interest

Step5. Stop

- Flowchart



7. Calculate area of a circle

- Pseudocode

Step1. Start

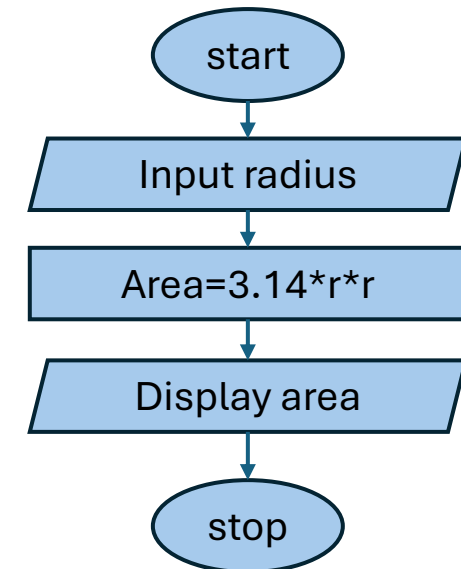
Step2. Input Radius

Step3. area= $3.14 \times r \times r$

Step4. Display area

Step5. stop

- Flowchart



8. Calculate temperature in °C and °F from °F and °C respectively

- Pseudocode

Step1. Start

Step2. Input °F, °C

Step3. Let fr, cn

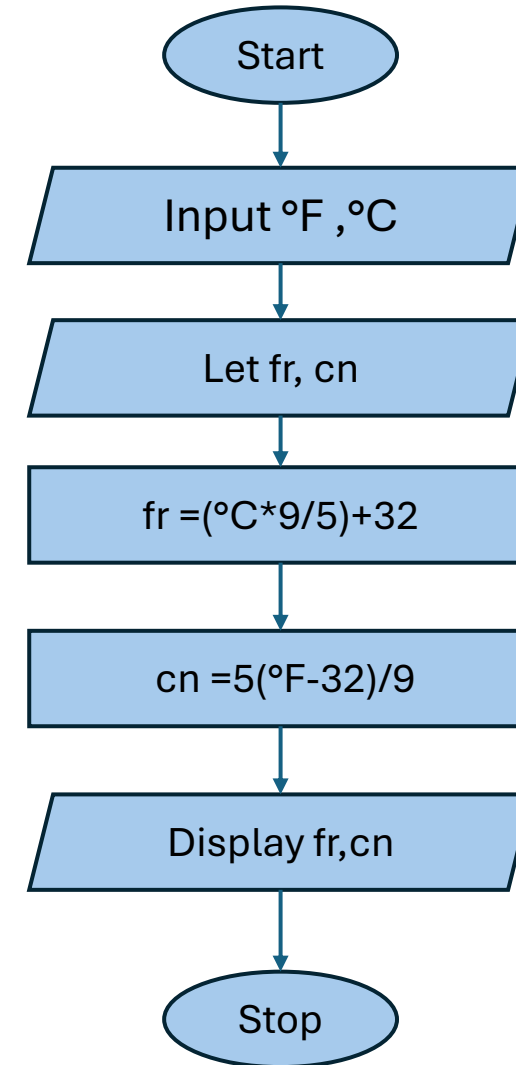
Step4. $fr = (°C * 9/5) + 32$

Step5. $cn = 5(°F - 32)/9$

Step6. Display fr, cn

Step7. Stop

- Flowchart



9. Swapping btw two no with variable. 10. Without variable

- Pseudocode

Step1. Start

Step2. Input l,h

Step3. Let=t, l=h, h=t

Step4. Display l,h

Step5. Stop

10.

Step1. Start

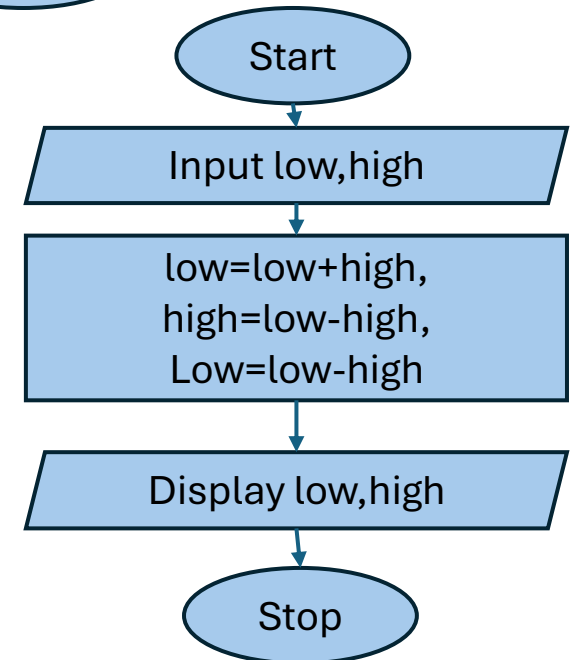
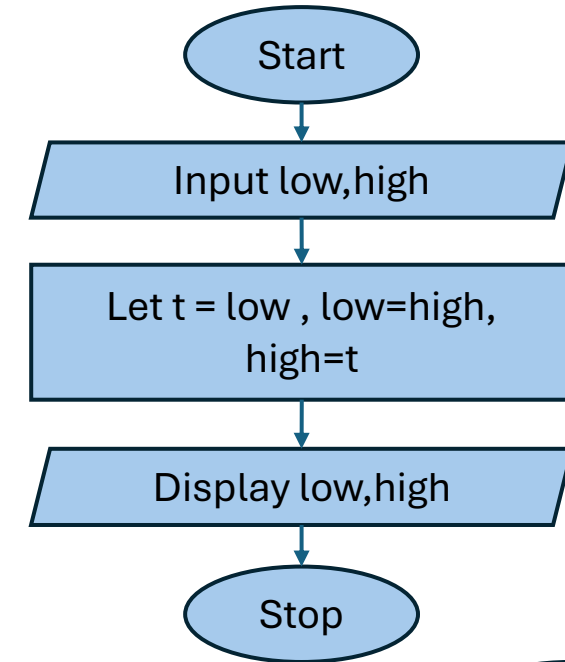
Step2. Input l,h

Step3. $l=l+h$, $h=l-h$, $l=l-h$

Step4. Display l,h

Step5. Stop

- Flowchart



11. Find last digit of a no a)with modulus b)without modulus

- Pseudocode

Step1. Start

Step2. Input n

Step3. $n = n \% 10$

Step4. Display n

Step5. Stop

- Pseudocode

Step1. Start

Step2. Input n

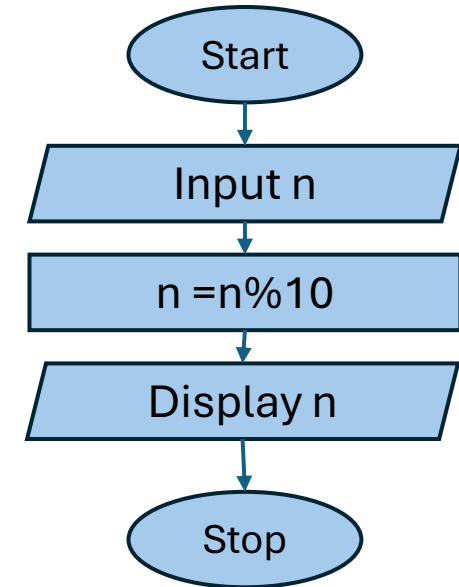
Step3. $n = n - (n / 10 * 10)$

Step4. Display n

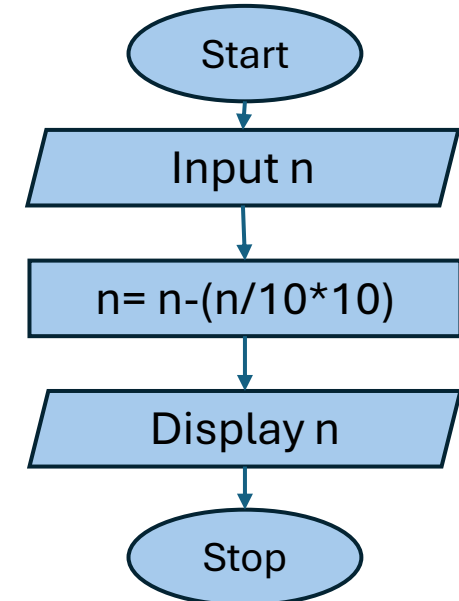
Step5. Stop

- Flowchart

a)



b)



12. Calculate compound interest

- Pseudocode

Step1. Start

Step2. Input p,r,n,t

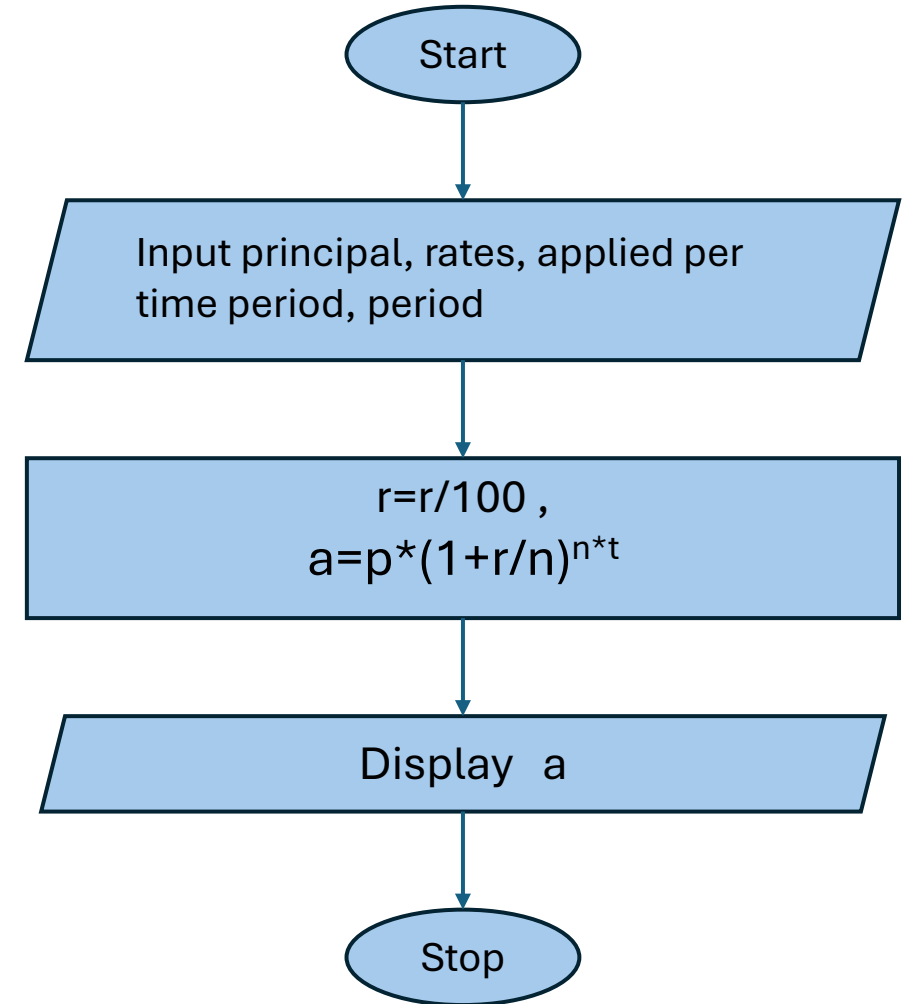
Step3. $r=r/100$

$$a=p*(1+r/n)^{n*t}$$

Step4. Display a

Step5. Stop

- Flowchart



13. Calculate area and perimeter of a rectangular

- Pseudocode

Step1. Start

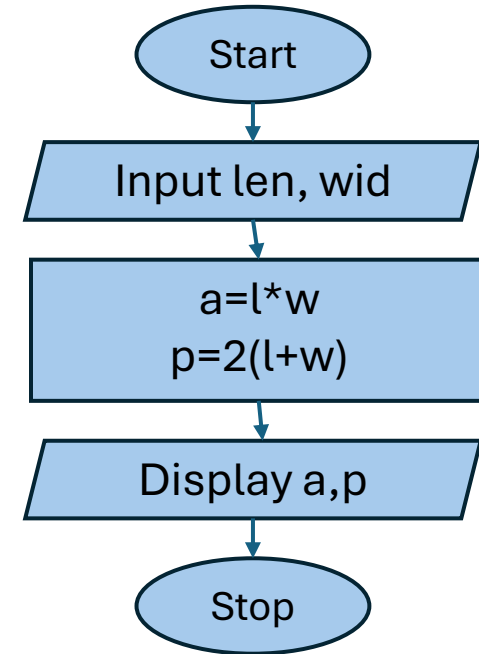
Step2. Input l,w

Step3. $a=l*w$, $p=2(l+w)$

Step4. Display a,p

Step5. Stop

- Flowchart



14. Find floor and ceil value

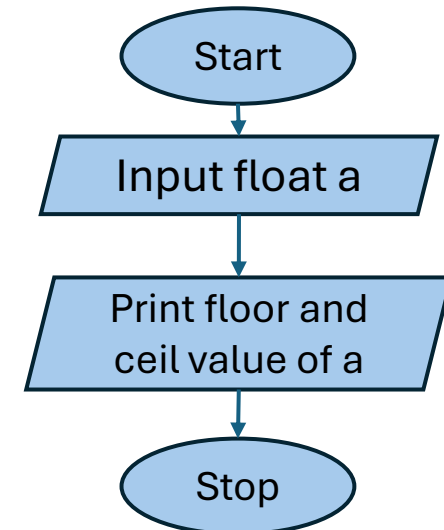
Step1. Start

Step2. Input a

Step3. Print floor and ceil value of a

Step4. Stop

- Flowchart



15. Calculate quadratic equation

- Algorithm

Step1. Start

Step2. Input a,b,

Step3. $X1 = \frac{-b - \sqrt{b^2 - 4ac}}{2a}$

$X2 = \frac{-b + \sqrt{b^2 - 4ac}}{2a}$

Step4. Display X1,X2

Step5. Stop

16. Check roll 100 present or not

Step1. Start

Step2. Input roll

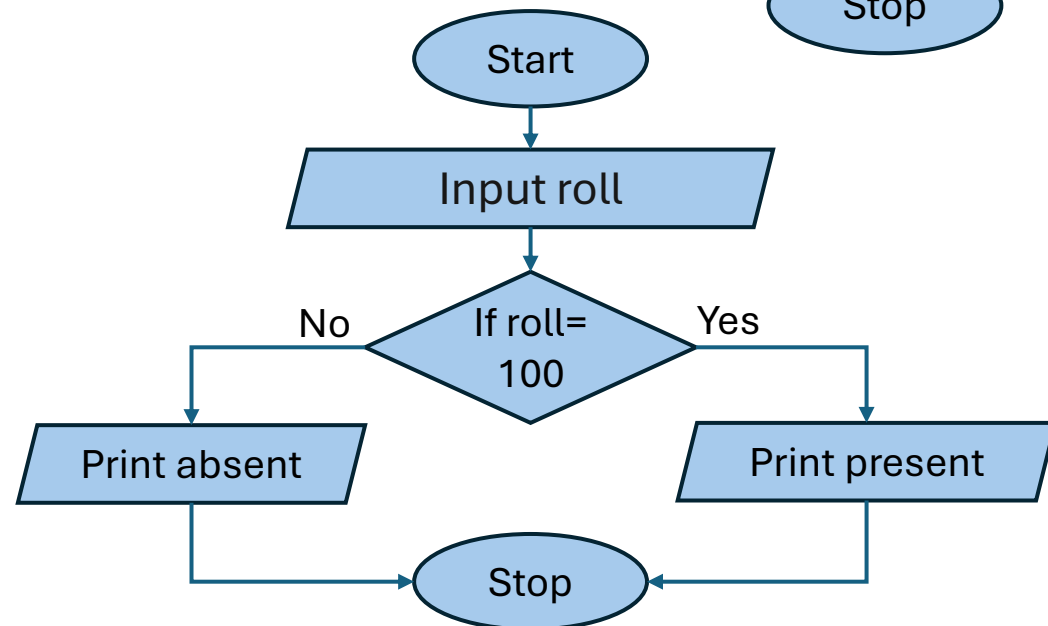
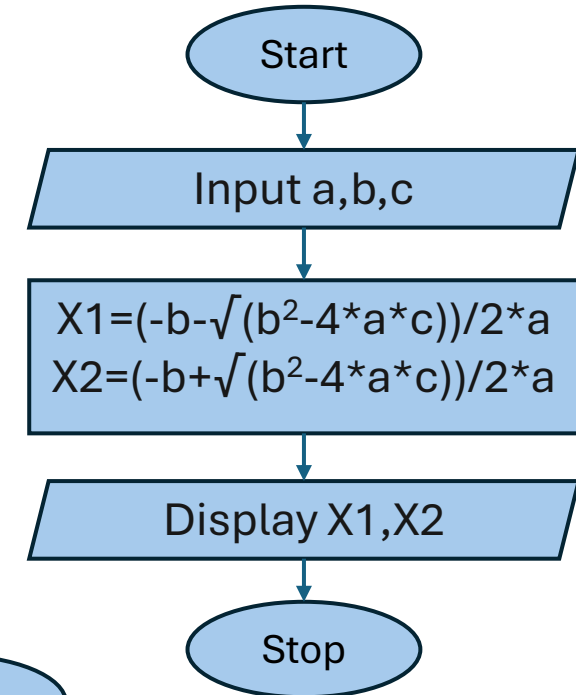
Step3. If roll=100 go to 4 step otherwise go to step 5

Step4. Print present go to step 6

Step5. Print absent

Step6. Stop

- Flowchart



17. Check a no even or odd

- Algorithm

Step1. Start

Step2. Input a

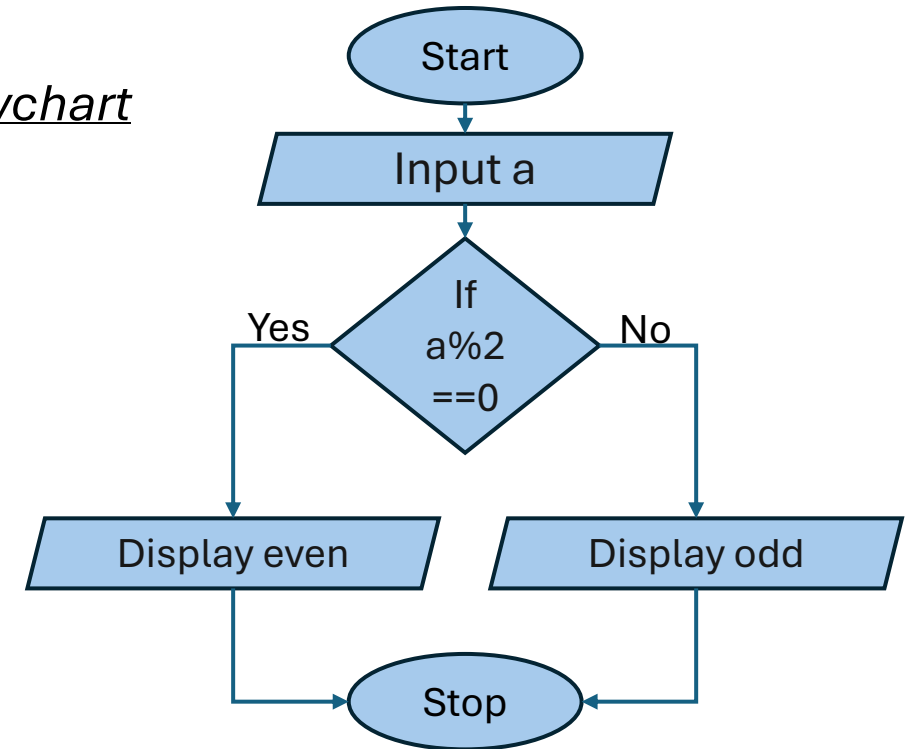
Step3. If $a \% 2 == 0$, go to step 4
otherwise go to step 5

Step4. Display even , go to step 6

Step5. Display odd

Step6. Stop

- Flowchart



18. Greater between two no

- Algorithm

Step1. Start

Step2. Input a,b

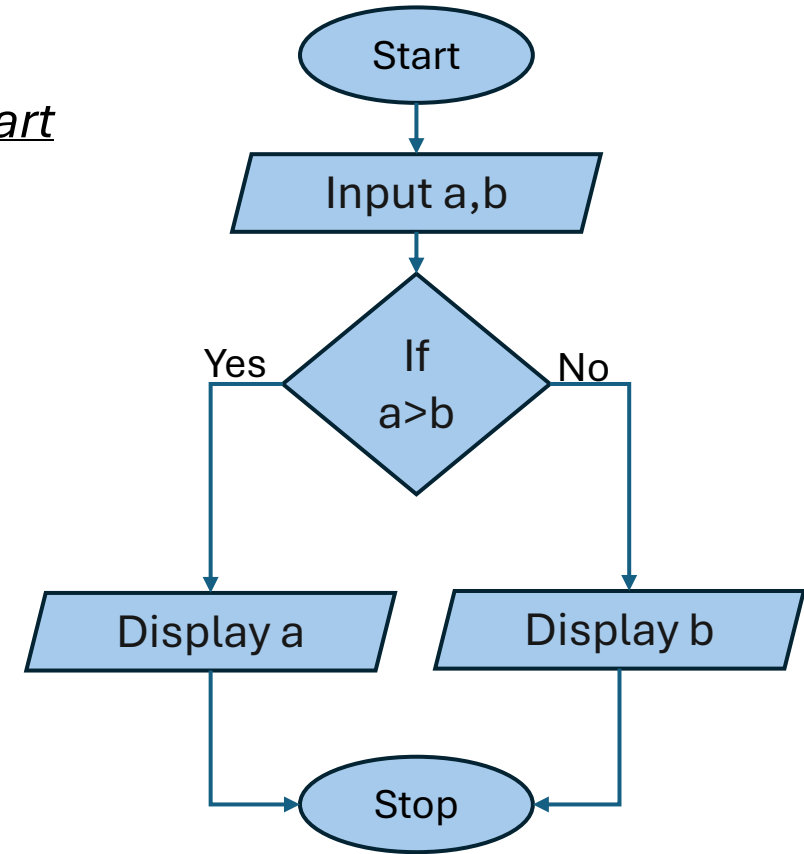
Step3. If $a > b$ then go to step 4
otherwise go to step 5

Step4. Display a, go to Step 6

Step5. Display b

Step6. Stop

- Flowchart



19. Tossed coin Head or tail

- Algorithm

Step1. Start

Step2. Input toss

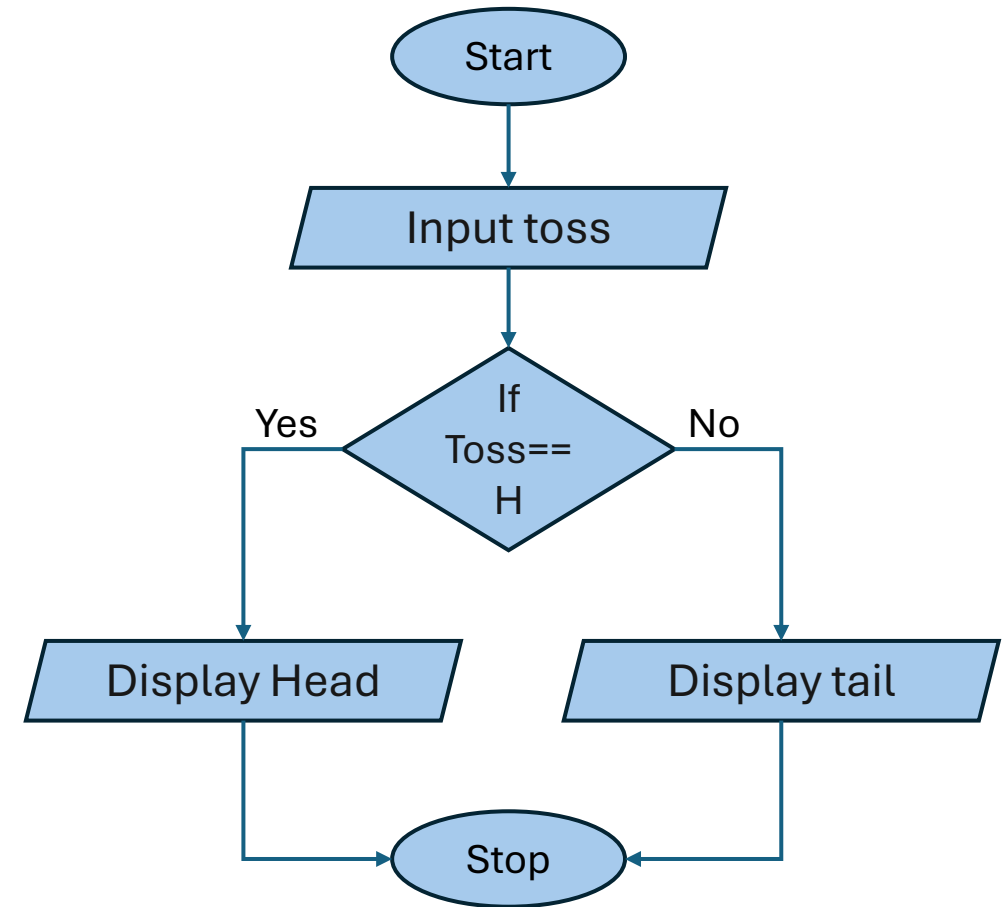
Step3. If toss==H , go to step 4
otherwise go to step 5

Step4. Display Head, go to step 6

Step5. Display Tail

Step6. Stop

- Flowchart



20. Check a no if it is whole or not

- Algorithm

Step1. Start

Step2. Input float a

Step3. Let int b

Step4. If $a \geq 0$ & $a = b$ go to step 5

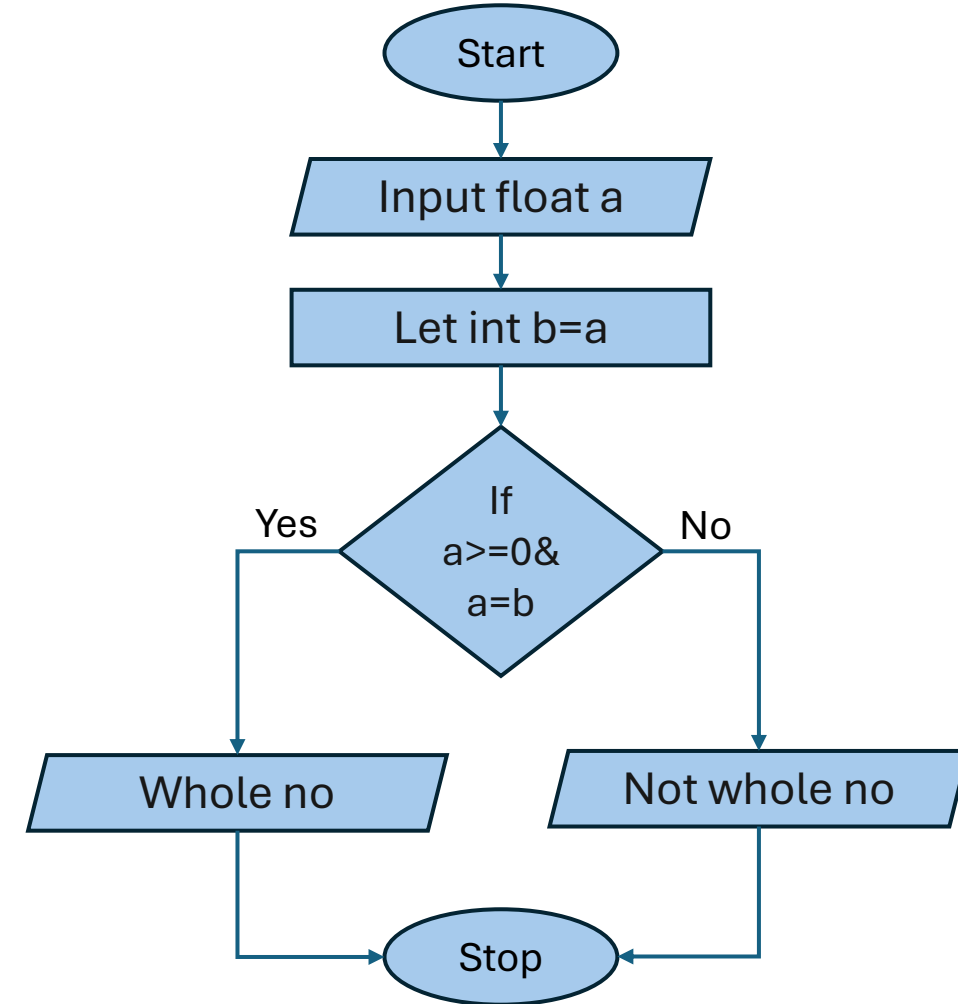
Otherwise go to step 6

Step5. Print whole no, go to step 7

Step6. Print not whole no

Step7. Stop

- Flowchart



21. Check leap year or not

- Algorithm

Step1. Start

Step2. Input year

Step3. If $y \% 400 = 0$ go to step 5

otherwise go to step 4

Step4. If $y \% 100 \neq 0$ & $y \% 4 = 0$ go to step 5

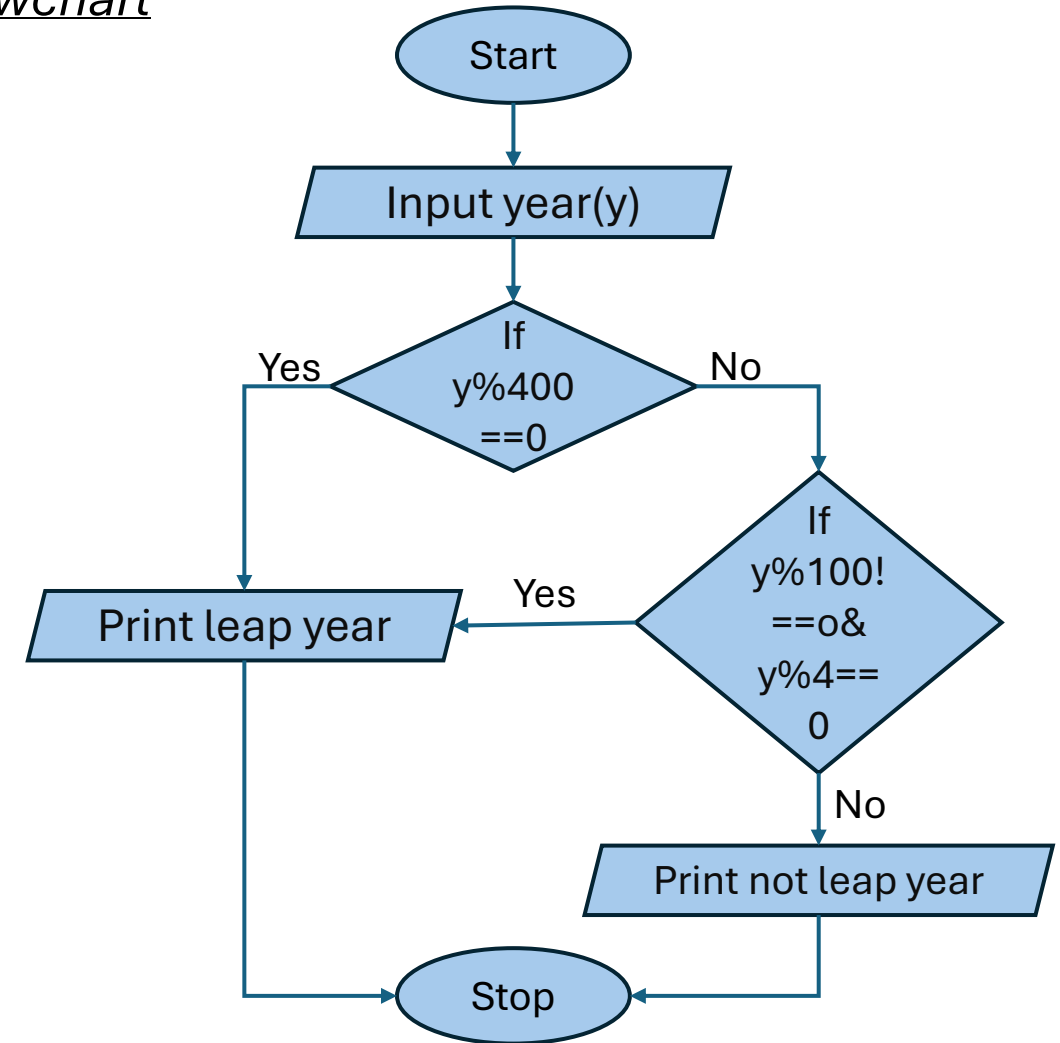
otherwise go to step 6

Step5. Print leap year go to step 7

Step6. Print not leap year

Step7. Stop

- Flowchart



22. Greatest between three no

- Algorithm

Step1. Start

Step2. Input a,b,c

Step3. If $a > b$ go to step 4
otherwise go to step 5

Step4. If $a > c$ go to step 6
otherwise go to 8

Step5. If $b > c$ go to step 7
otherwise go to step 8

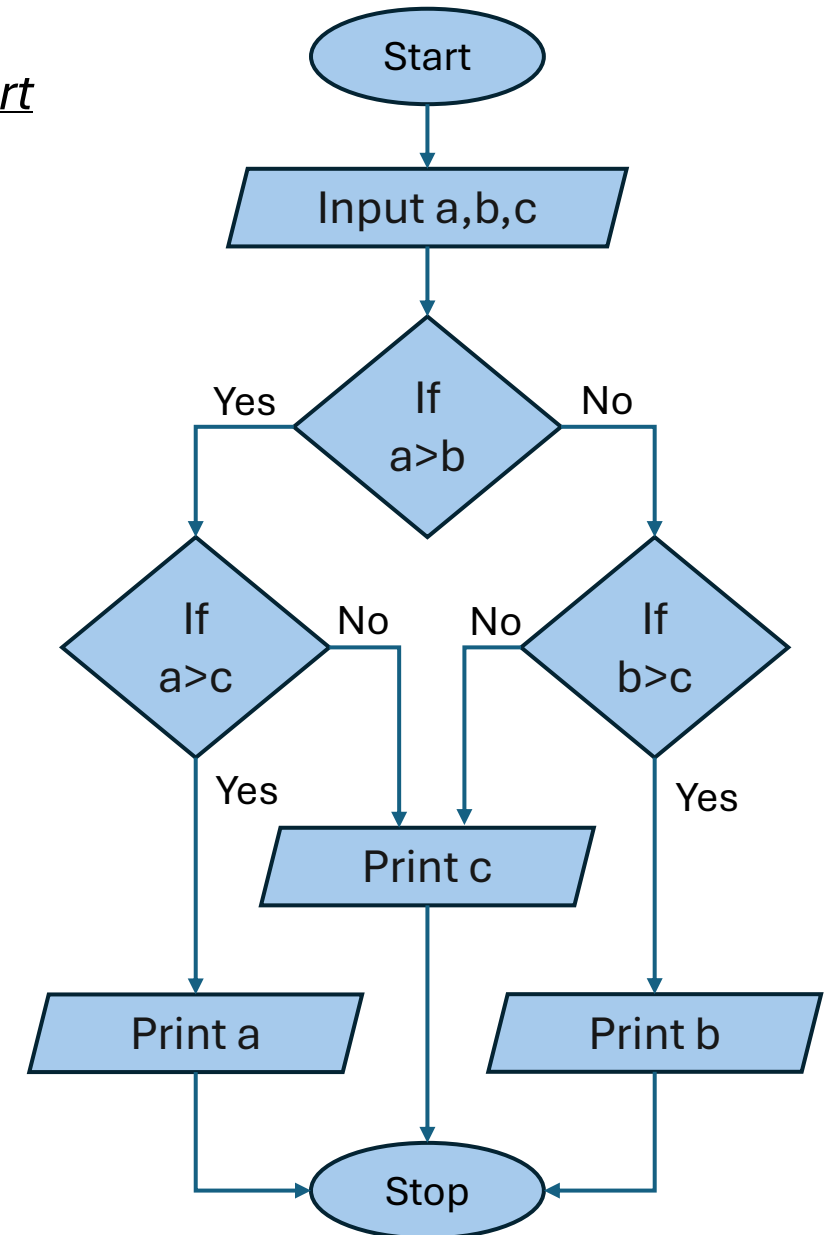
Step6. Print a , go to step 9

Step7. Print b , go to step 9

Step8. Print c

Step9. Stop

- Flowchart



23. Check a letter vowel or consonent

- Algorithm

Step1. Start

Step2. Input letter

Step3. If l=a,e,i,o,u go to step 4
otherwise go to step 5

Step4. Print vowel, go to step 6

Step5. Print consonant

Step6. Stop

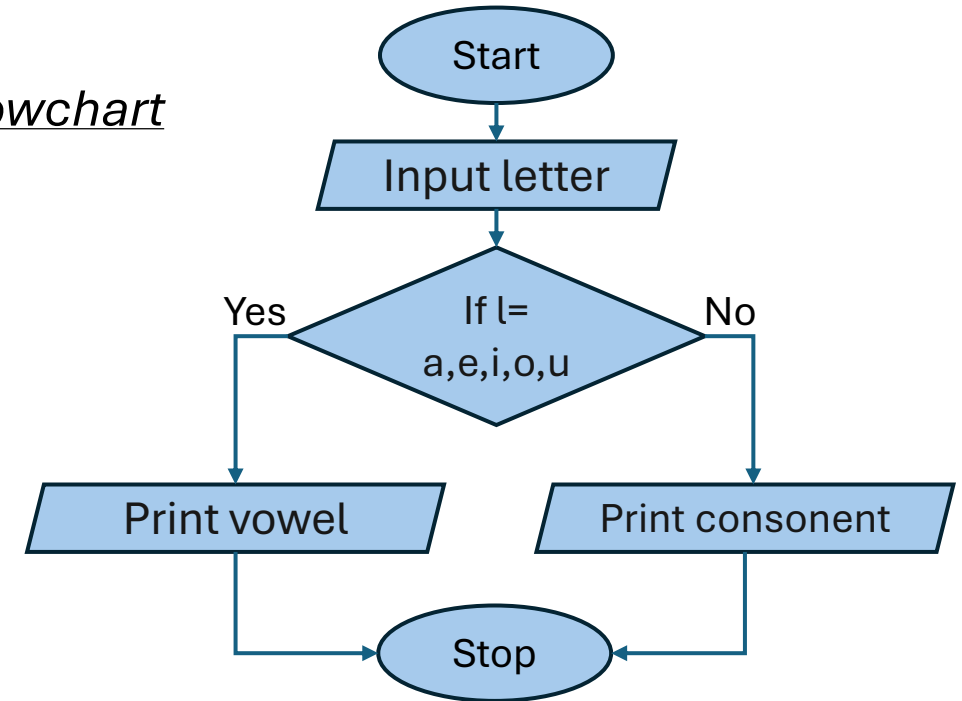
24. Print size of int,float,double,char

Step1. Start

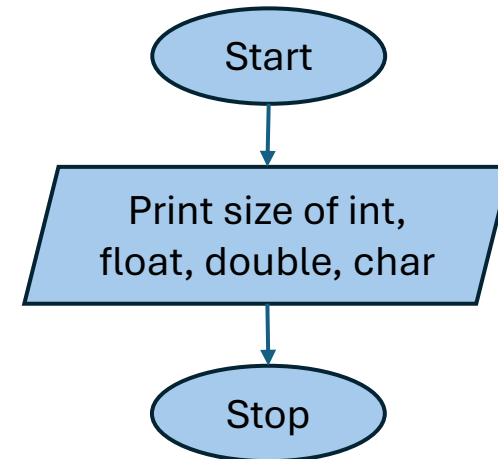
Step2. Print size of int, float, double, char

Step3. Stop

- Flowchart



- Flowchart



25. Greatest between three no

- Algorithm

Step1. Start

Step2. Input a,b,c

Step3. If $a > b$ go to step 4
otherwise go to step 5

Step4. If $a > c$ go to step 6
otherwise go to 8

Step5. If $b > c$ go to step 7
otherwise go to step 8

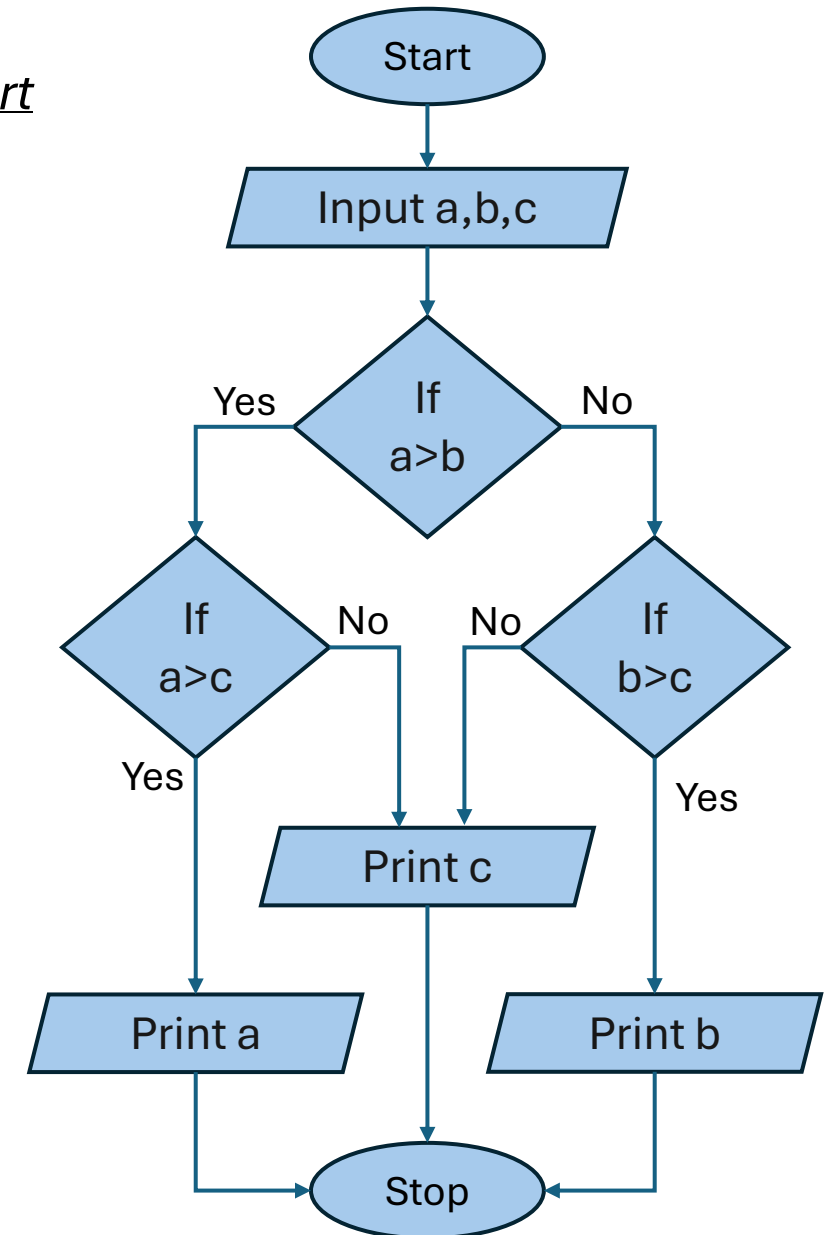
Step6. Print a , go to step 9

Step7. Print b , go to step 9

Step8. Print c

Step9. Stop

- Flowchart



26. Simple calculator using switch case

- Algorithm

Step1. Start

Step2. Input a,b,ope

Step3. If case '+' go to step 7 otherwise go to 4

Step4. If case '-' go to step 8 otherwise go to 5

Step5. If case '*' go to step 9 otherwise go to 6

Step6. If case '/' go to step 10 otherwise go to 11

Step7. Print a+b, go to step 12

Step8. Print a-b, go to step 12

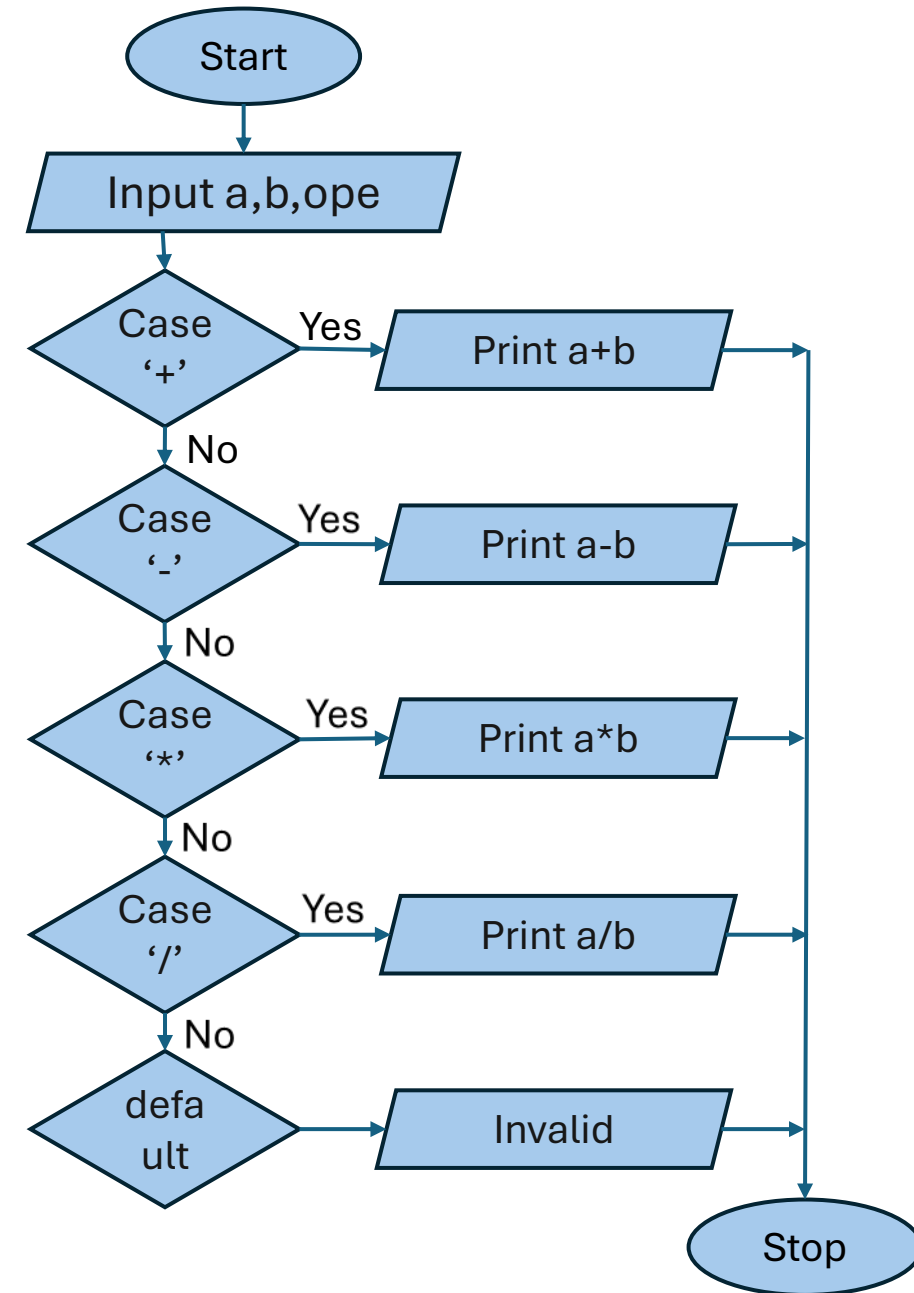
Step9. Print a*b, go to step 12

Step10. Print a/b, go to step 12

Step11. Print invalid

Step12. Stop

- Flowchart



27. Check letter vowel or consonant

- Algorithm

Step1. Start

Step2. Input letter

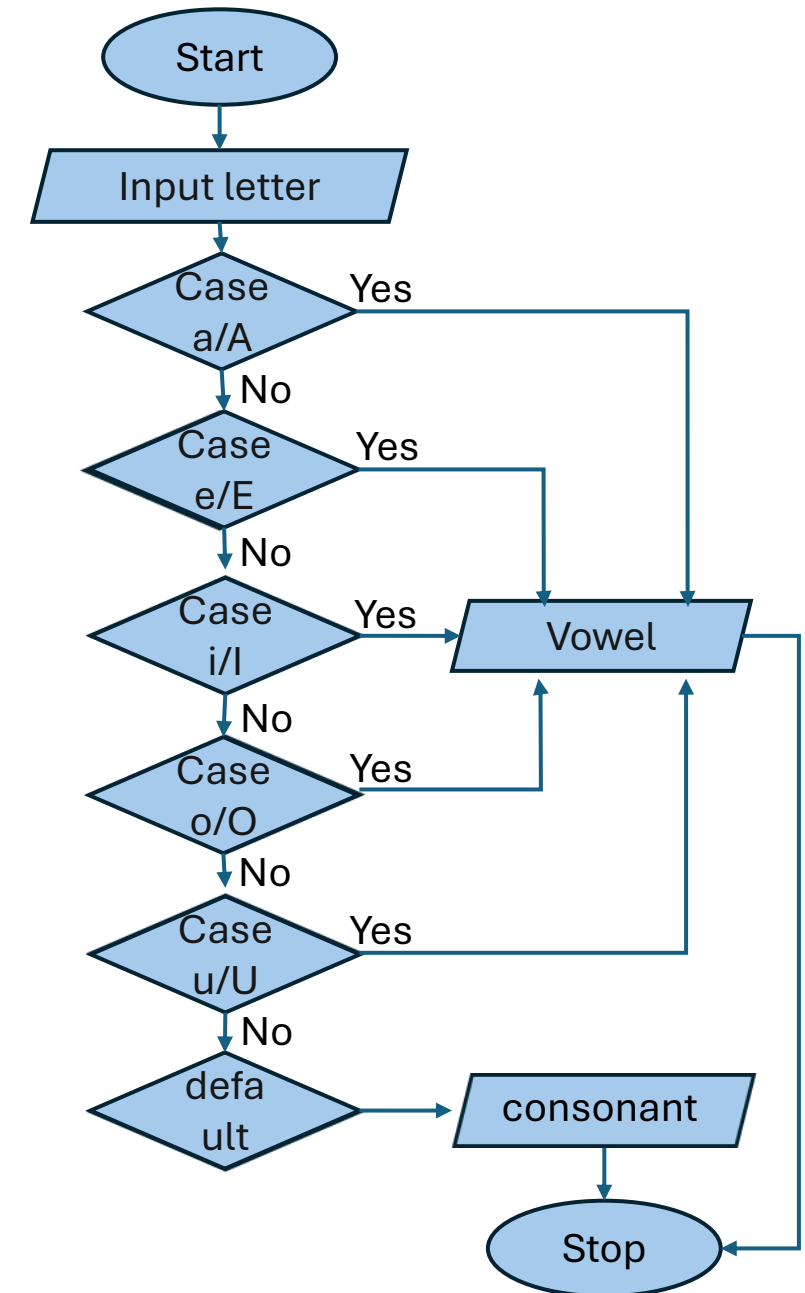
Step3. If case a/A/e/E/i/I/o/O/u/U go to step 4 otherwise go to step 5

Step4. Print vowel go to step 6

Step5. Print consonant

Step6. Stop

- Flowchart



28. Calculate final salary

- Algorithm

Step1. Start

Step2. Input salary

Step3. If $s \geq 50000$ go to step 5 otherwise go to 4

Step4. If $s \geq 50000$ go to step 6 otherwise go to 7

Step5. $fs = s + (35*s)/100$, go to step 8

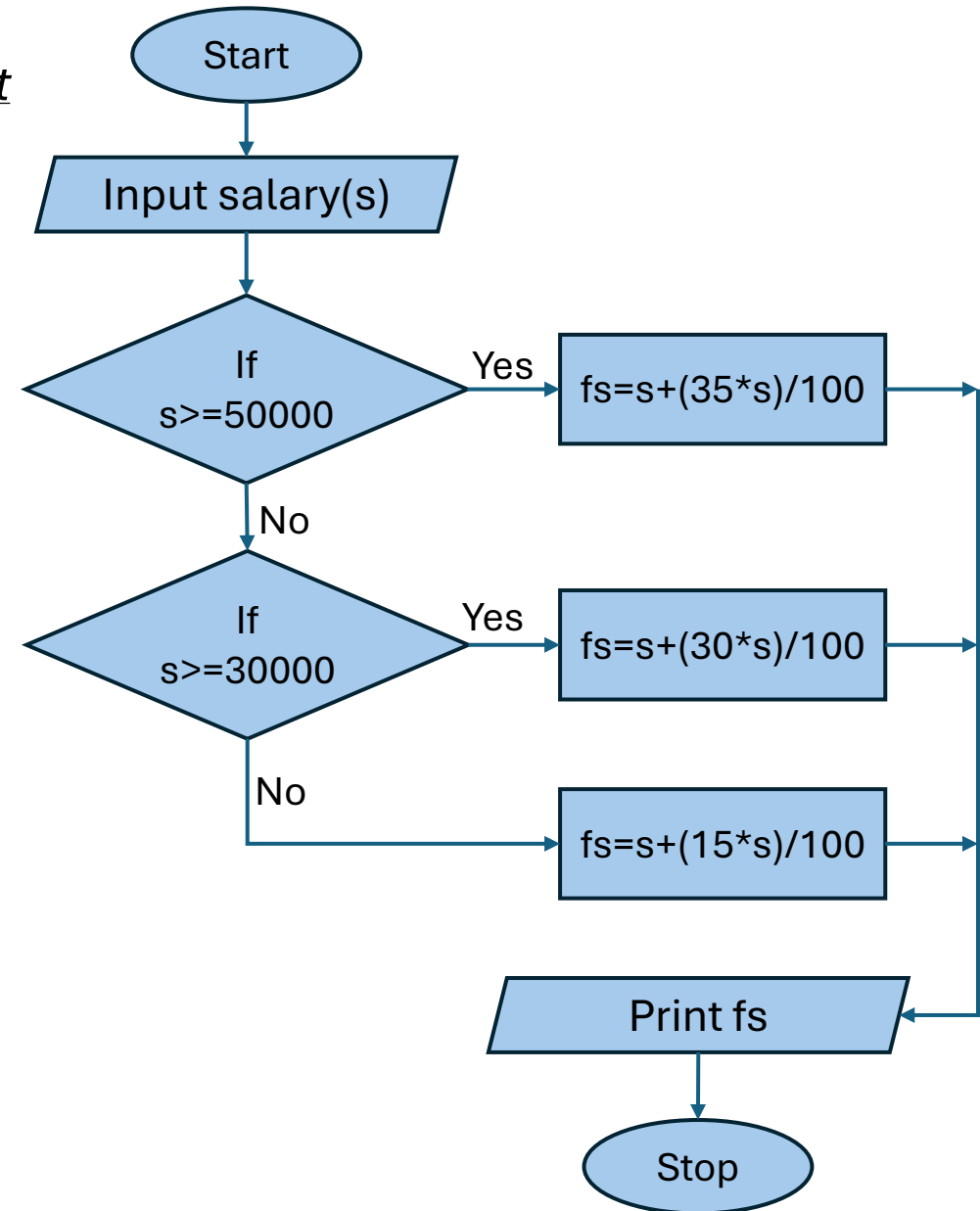
Step6. $fs = s + (30*s)/100$, go to step 8

Step7. $fs = s + (15*s)/100$

Step8. Print fs

Step9. Stop

- Flowchart



29. Calculate electric bill

- Algorithm

Step1. Start

Step2. Input unit

Step3. If $u \leq 100$ go to 5 otherwise go to 4

Step4. If $u \leq 200$ go to 6 to otherwise go to 7

Step5. $c = u * 5$ go to step 8

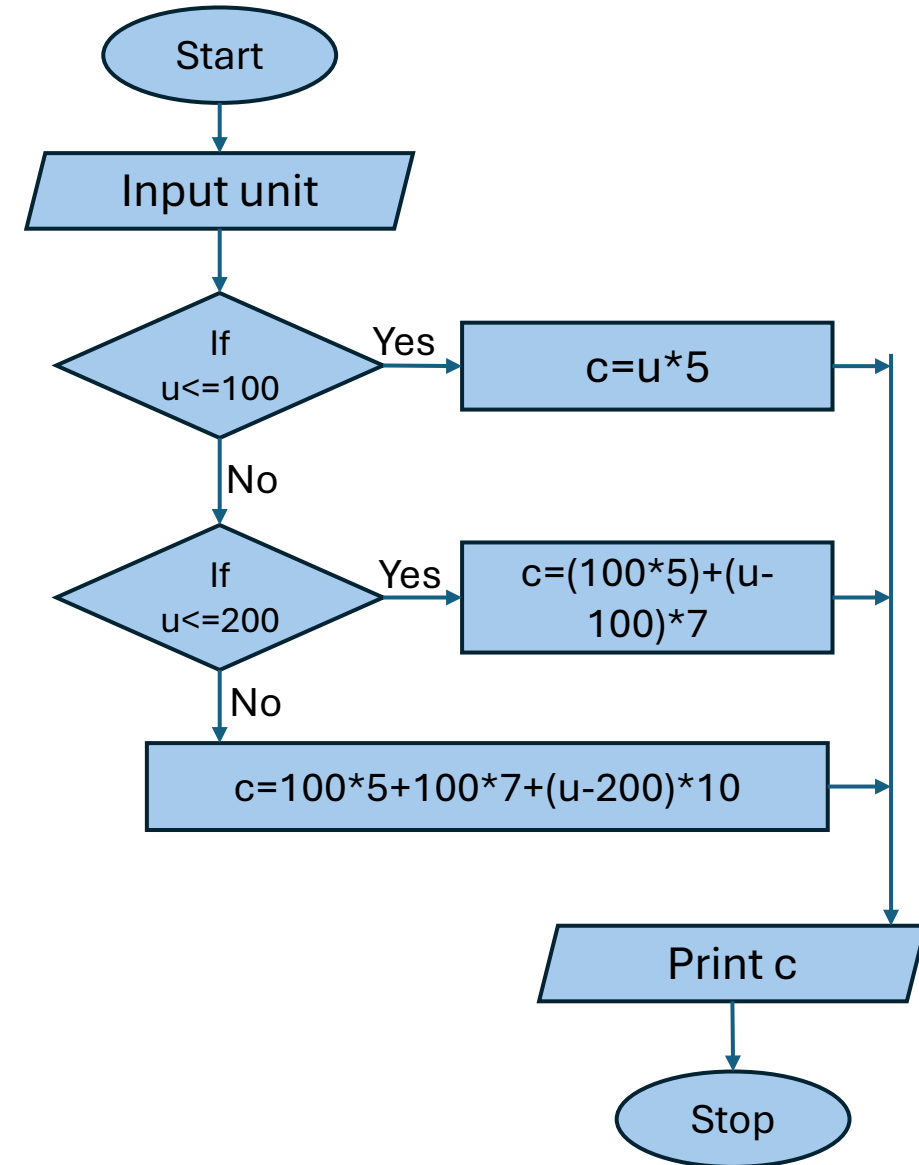
Step6. $c = 100 * 5 + (u - 100) * 7$,go to step 8

Step7. $c = 100 * 5 + 100 * 7 + (u - 200) * 10$

Step8. Print c

Step9. Stop

- Flowchart



30. Calculate grade

- Algorithm

Step1. Start

Step2. Input no

Step3. If $n \geq 90$ go to step 9 other go to step 4

Step4. If $n \geq 90$ go to step 10 other go to step 5

Step5. If $n \geq 90$ go to step 11 other go to step 6

Step6. If $n \geq 90$ go to step 12 other go to step 7

Step7. If $n \geq 90$ go to step 13 other go to step 8

Step8. If $n \geq 90$ go to step 14 other go to step 15

Step9. Print Grade O go to step 16

Step10. Print Grade A+ go to step 16

Step11. Print Grade A go to step 16

Step12. Print Grade B+ go to step 16

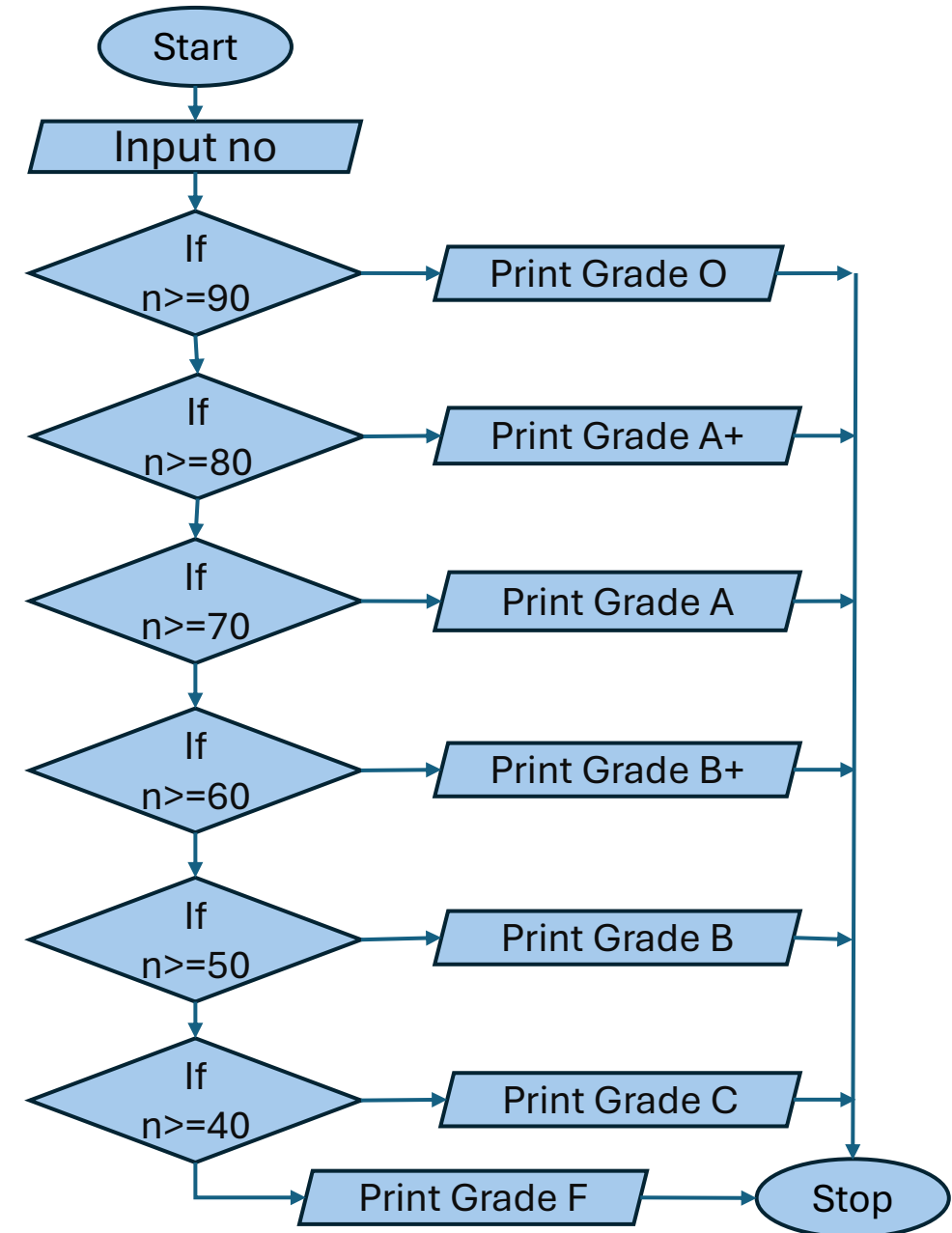
Step13. Print Grade B go to step 16

Step14. Print Grade C go to step 16

Step15. Print Grade F

Step16. Stop

- Flowchart



31. Print multiplication table

- Algorithm

Step1. Start

Step2. Input n

Step3. Let m, i=1

Step4. If $i \leq 10$ go to step 5 otherwise go to 8

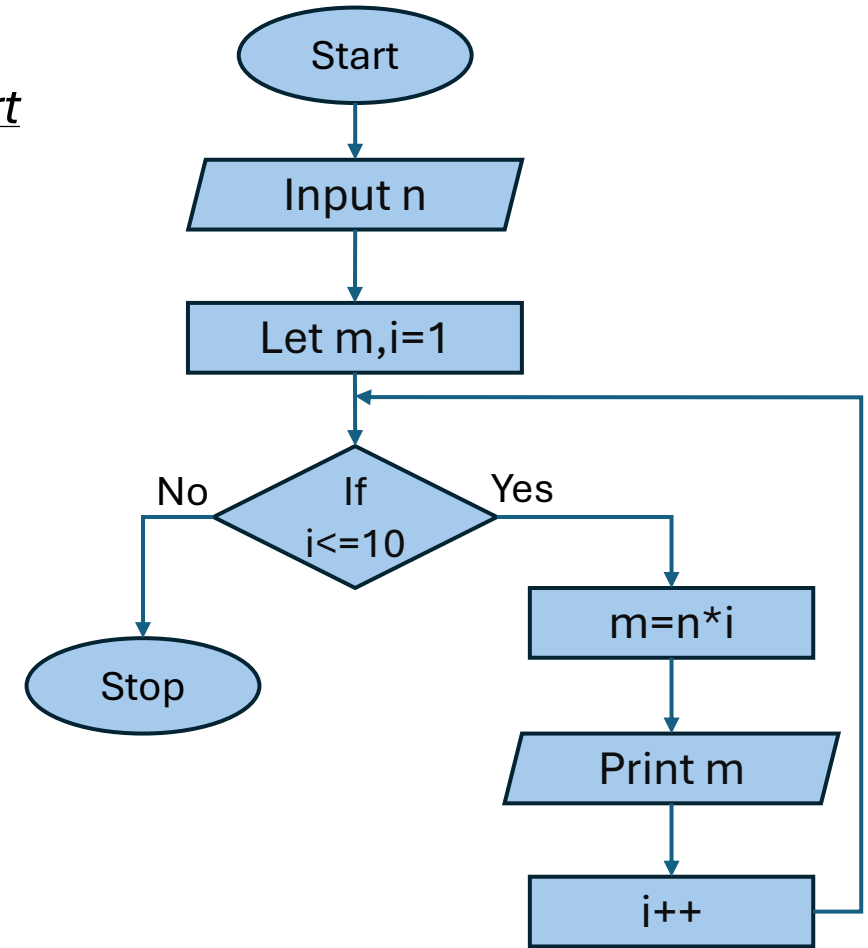
Step5. $m = n * i$

Step6. Print m

Step7. $i++$,go to step 4

Step8. Stop

- Flowchart



32. Print sum of first n natural no.

- Algorithm

Step1. Start

Step2. Input n

Step3. Let $i=1, s=0$

Step4. If $i \leq n$ go to step 5 otherwise go to 7

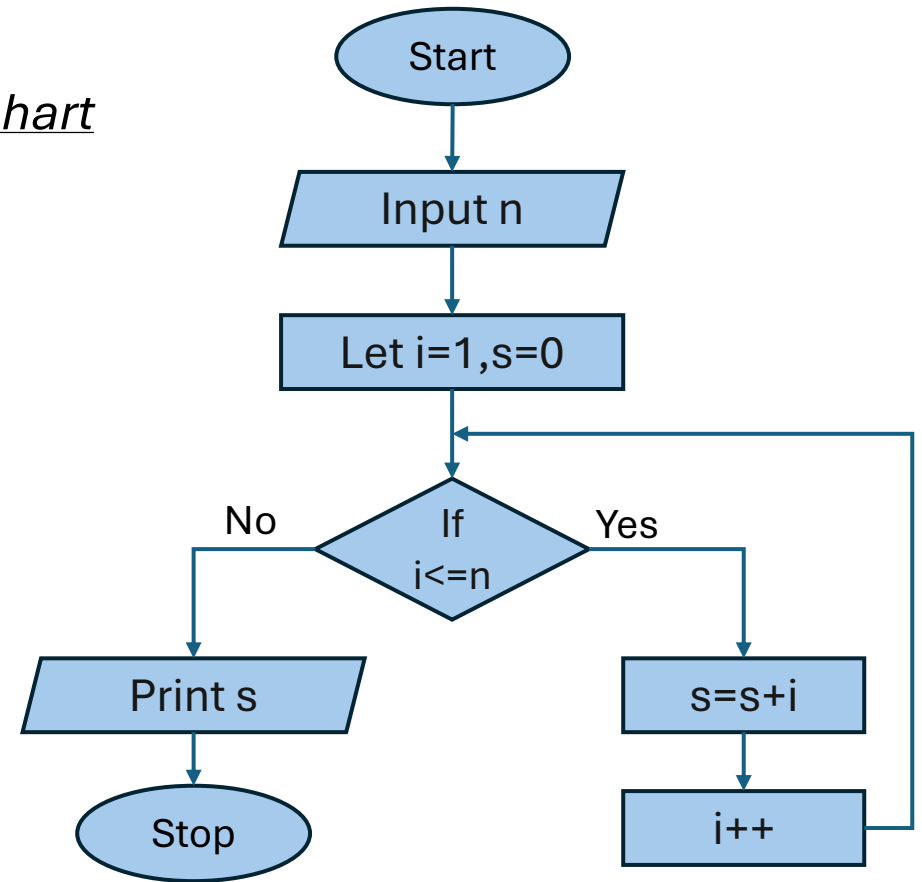
Step5. $s=s+i$

Step6. $i++$, go to step 4

Step7. Print s

Step8. Stop

- Flowchart



33. Print factorial of a no.

- Algorithm

Step1. Start

Step2. Input n

Step3. Let $i=1, f=1$

Step4. If $i \leq n$ go to step 5 otherwise go to 7

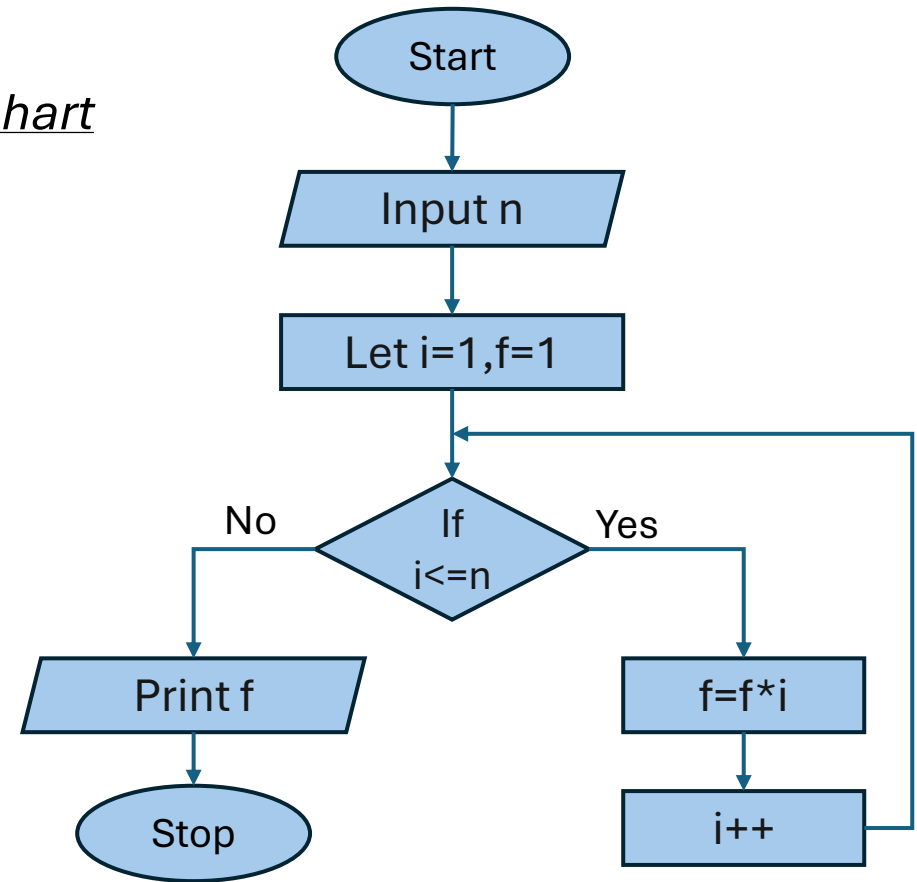
Step5. $f=f*i$

Step6. $i++$, go to step 4

Step7. Print f

Step8. Stop

- Flowchart



34. Print feubonaci series

- Algorithm

Step1. Start

Step2. Input n

Step3. Let $n1=0$, $n2=1$, $i=3$, $n3$

Step4. Print $n1, n2$

Step5. if $i \leq n$ go to step 6 otherwise go to step 10

Step6. $n3=n1+n2$

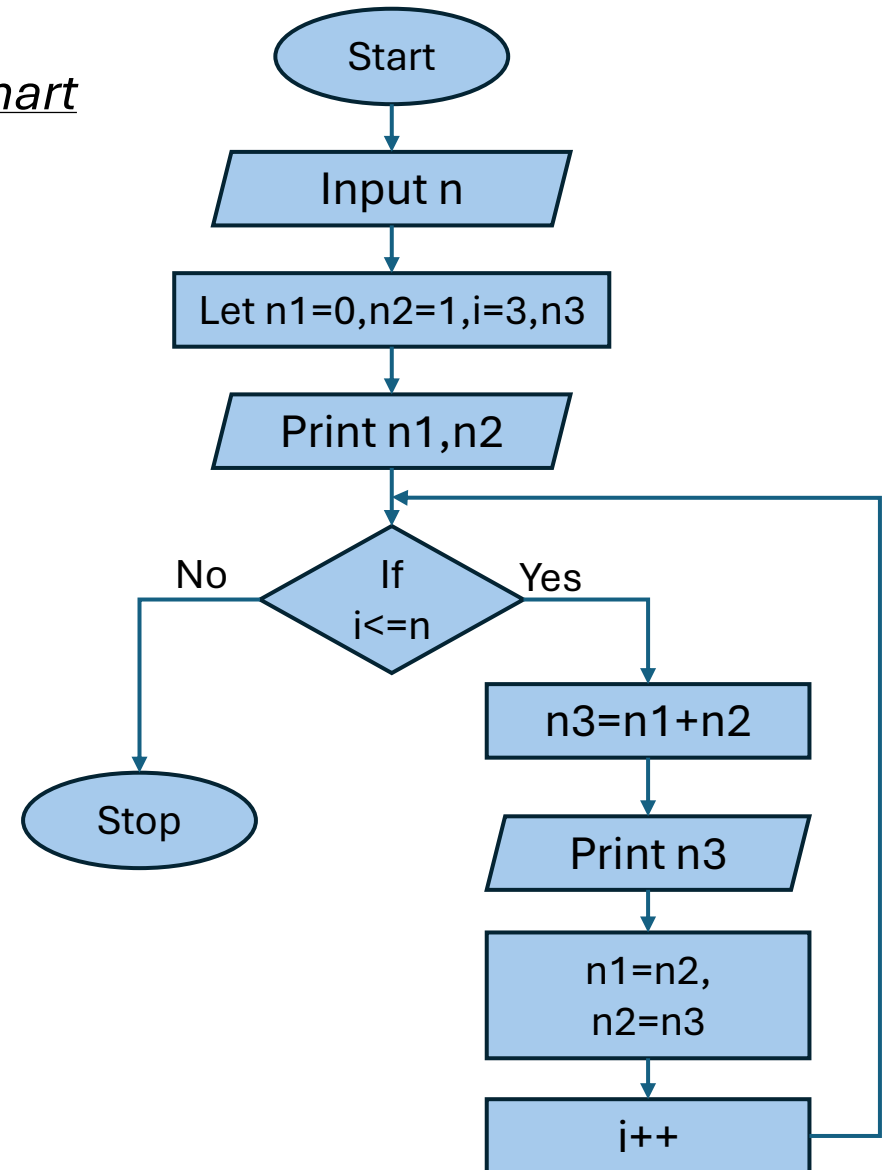
Step7. print $n3$

Step8. $n1=n2$, $n2=n3$

Step9. $i++$, go to step 5

Step10. Stop

- Flowchart



35.

