

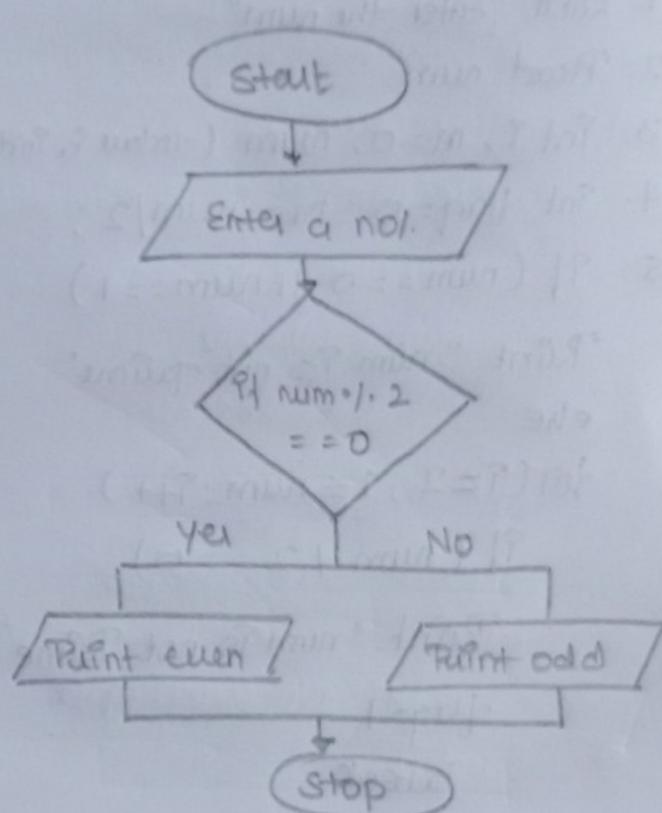
Assignment - 1

14/07

① Check given Integer Is odd or even

Pseudocode:

1. Print "Enter a no."
2. Read num
3. If $\text{num} \% 2 == 0$
 - Print "Even"
 - else
 - Print "odd"
4. EndIf



Java code:

```
Package basic;
Import java.util.Scanner;
Public class Prg1 {
    Public static void main (String [] args) {
        System.out.println ("Enter the num");
        Scanner scu = new Scanner (System.in);
        int num = scu.nextInt();
        If (num%2 == 0)
            { S.O.P ("num Is Even"); }
        else
            { S.O.P ("num Is odd"); }
    }
}
```

3
3

② check given number is prime or not

Pseudocode:

1. Print "Enter the num"
2. Read num
3. Int i, m=0, num (declare & init).
4. Int flag=0, m = num/2;
5. If (num==0 || num==1)
Print "num is not prime"
else

for (i=2 ; i <= num ; i++)

If (num % i == 0)

Print "num is not prime"

flag=1

break

Endif

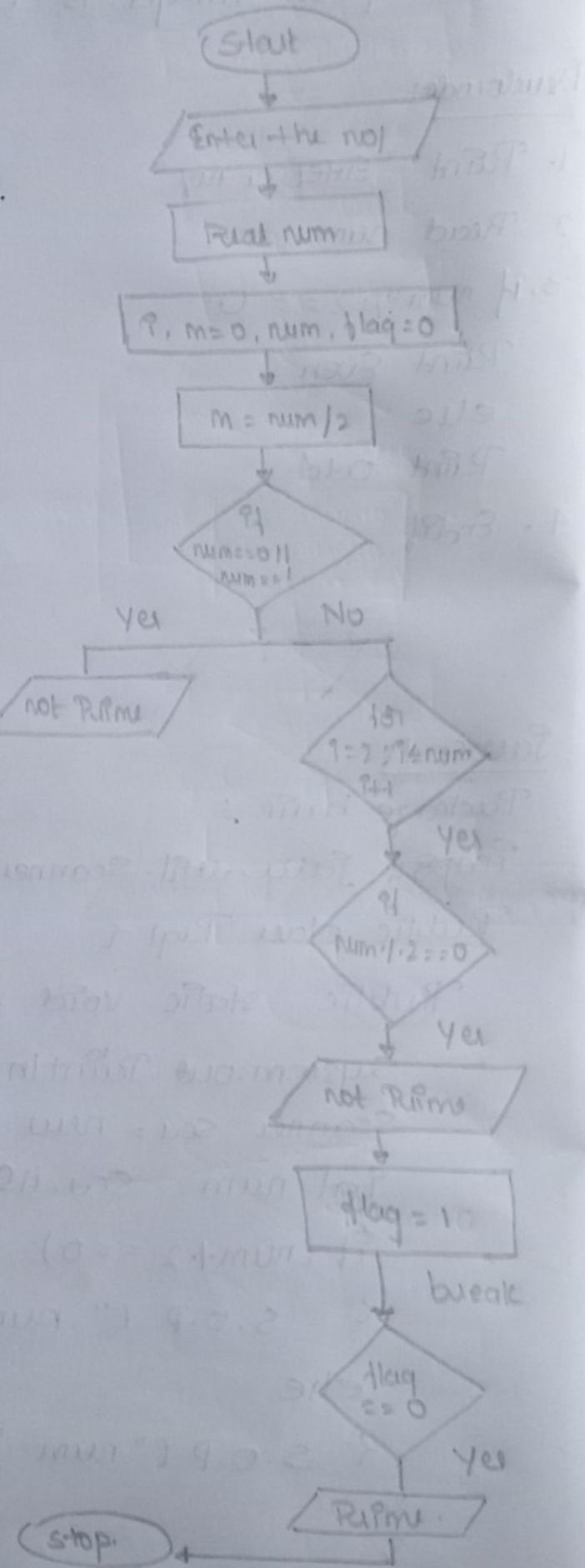
Endfor

6. If flag==0

Print "num is prime"

Endif

Endif



③ find greatest of 3 number

1. declare a, b, c
2. Print "Enter the value"
3. Read a, b, c
4. If $a > b \& a > c$

Print "a is greatest"

else

If $b > a \& b > c$

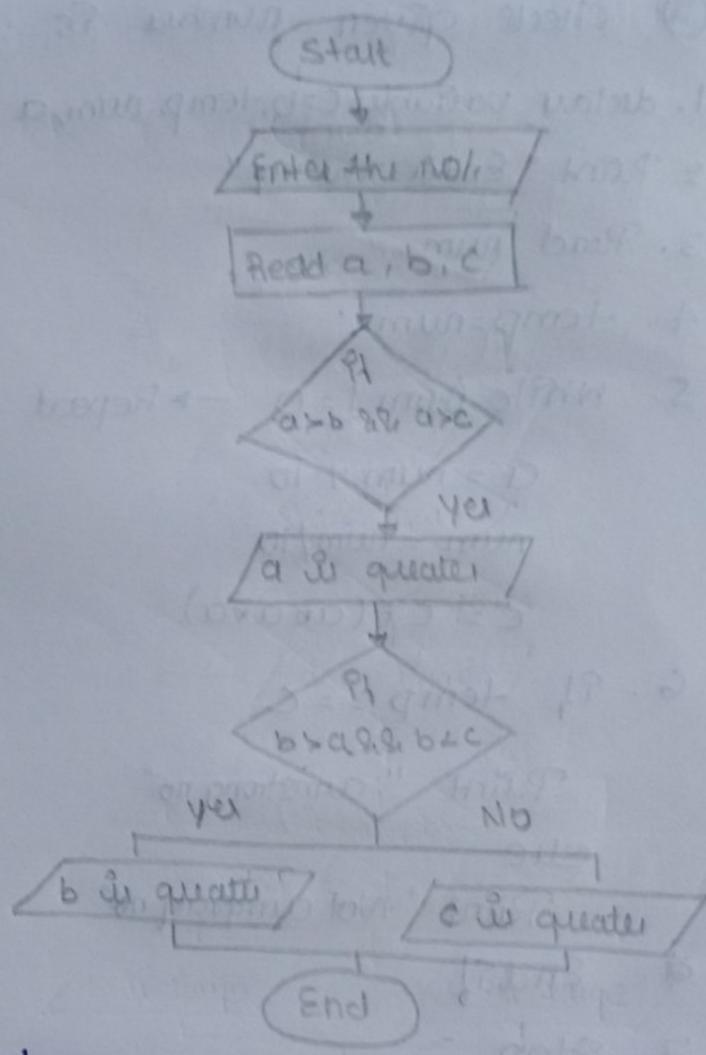
Print "b is greatest"

else

Print "c is greatest"

End If

End If.



④ find ~~greatest~~ smallest of 3 number

1. declare a, b, c
2. Print "Enter the value"
3. Read a, b, c
4. If $a < b \& a < c$

Print "a is smallest"

else

If $b < a \& b < c$

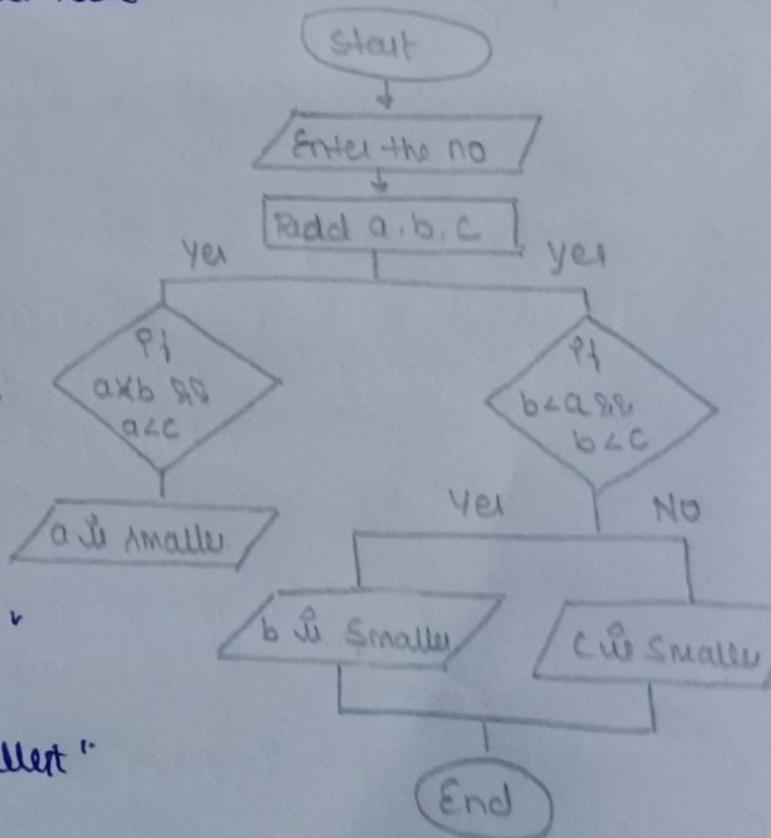
Print "b is smallest"

else

Print "c is smallest"

End If.

End If.



⑤ Check given number is Armstrong no.

1. declare variables c=0, temp, num, a
2. Print "Enter the no."
3. Read num.
4. temp = num
5. while num != 0 → Repeat

$$a = num \cdot 1 \cdot 10$$

$$num = num / 10$$

$$c = c + (a * a * a)$$

6. if temp == c

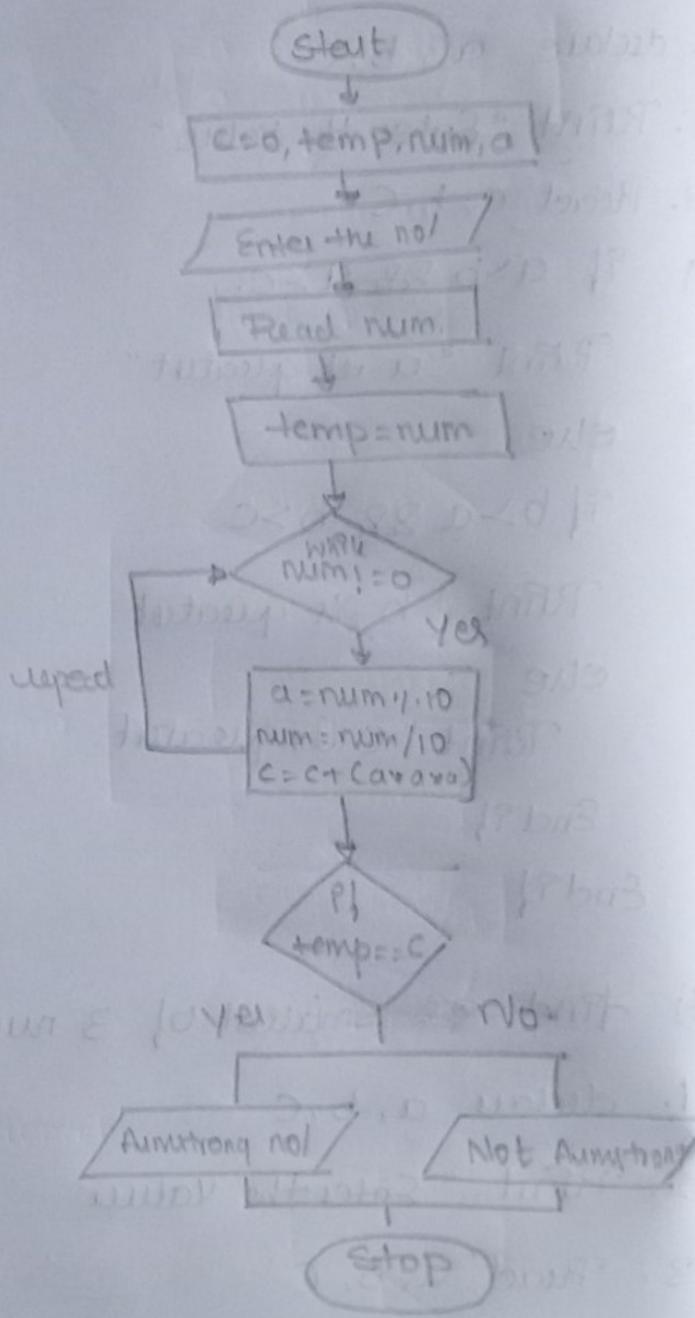
Print "Armstrong no"

else

Print "Not Armstrong no"

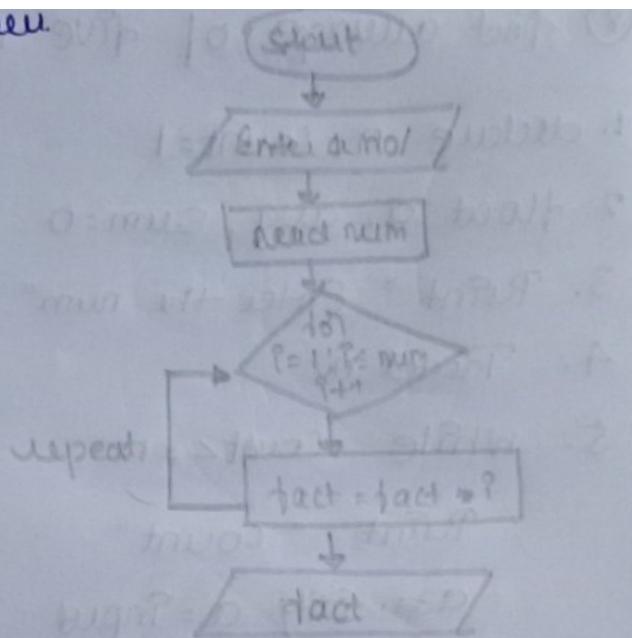
7. End if

7. Stop



⑥ Print factors of all given number.

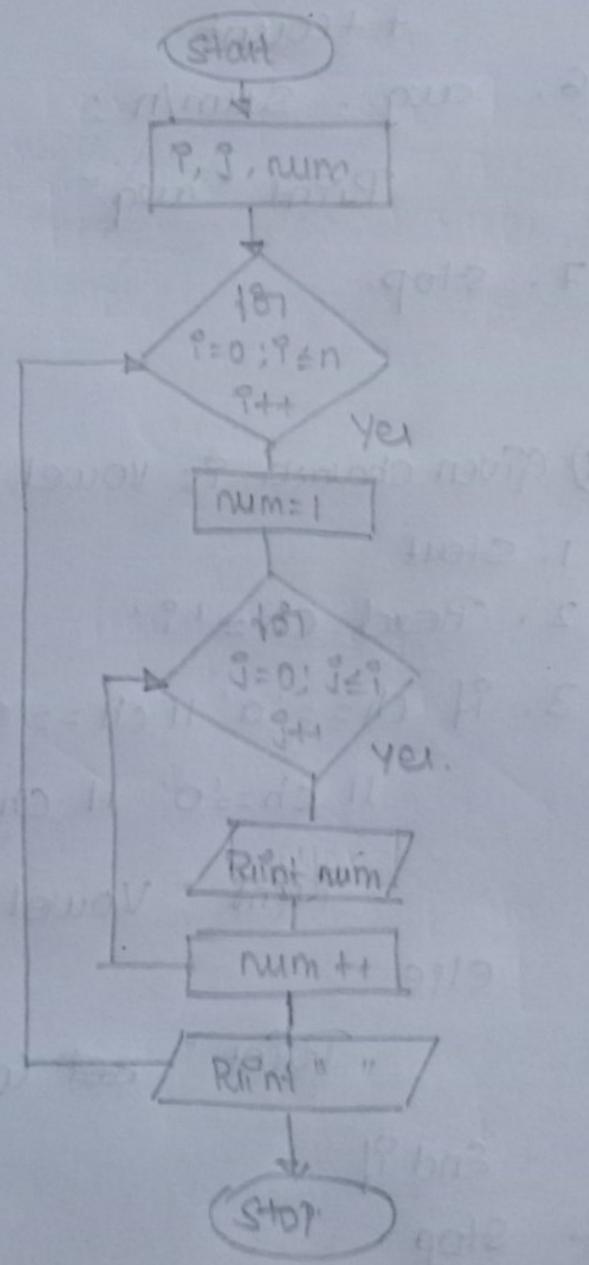
1. RPrint "Enter a no/
2. Read num
3. declare i, fact = 1
4. $\text{for } i=1; i \leq \text{num} \rightarrow \text{repeat}$
 $\quad \text{fact} = \text{fact} * i;$
 RPrint "fact"
5. Stop.



⑦ Print the pattern given.

1. declare i, j, num
2. $\text{for } i=0; i \leq n; i++$
 $\quad \text{num} = 1$
 $\quad \text{for } j=0; j \leq i; j++$
 $\quad \quad \text{RPrint " num"}$
 $\quad \quad \text{num}++$
 $\quad \text{RPrint " "}$
3. stop.

$\begin{matrix} 1 & 2 \\ 1 & 2 & 3 \\ 1 & 2 & 3 & 4 \\ 1 & 2 & 3 & 4 & 5 \end{matrix}$



8) find average of five numbers

1. declare n, count=1
2. float a, avg, sum=0

3. Print " Enter the num"

4. Read n.

5. while count <= n.

Print " count"

float a = input.

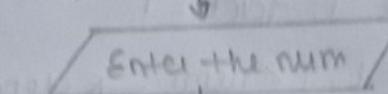
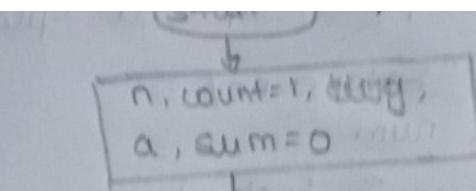
sum = sum + a;

++count

6. avg = sum/n ;

Print " avg"

7. stop.



Read n

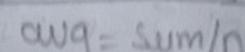
while

count <= n



sum = sum + a

++count



avg = sum/n

Stop

goto

9) Given character is vowel or consonant.

1. Start

2. Read ch = 'i'

3. if ch == 'a' || ch == 'e' || ch == 'i'
|| ch == 'o' || ch == 'u'

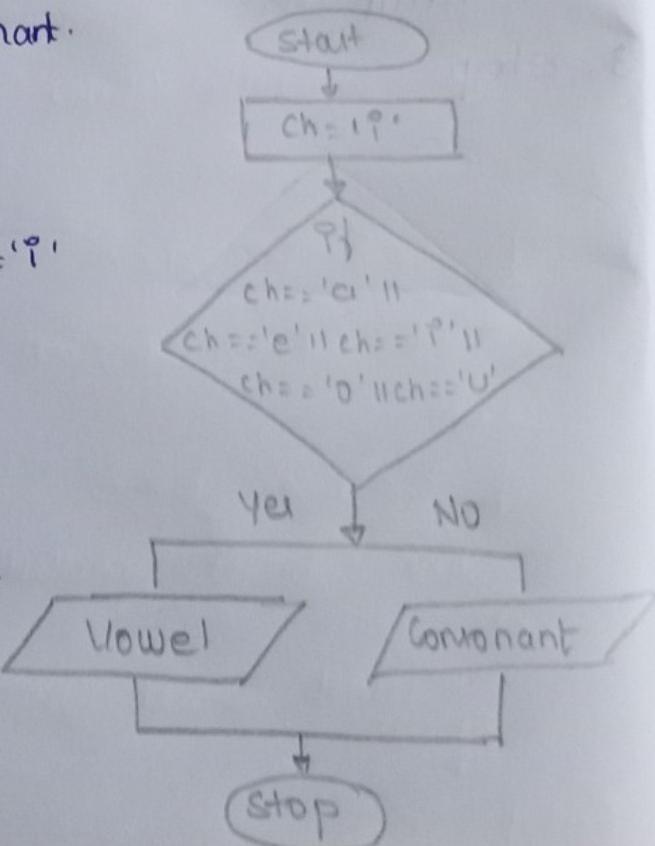
Print " Vowel "

else

Print " ~~not~~ consonant "

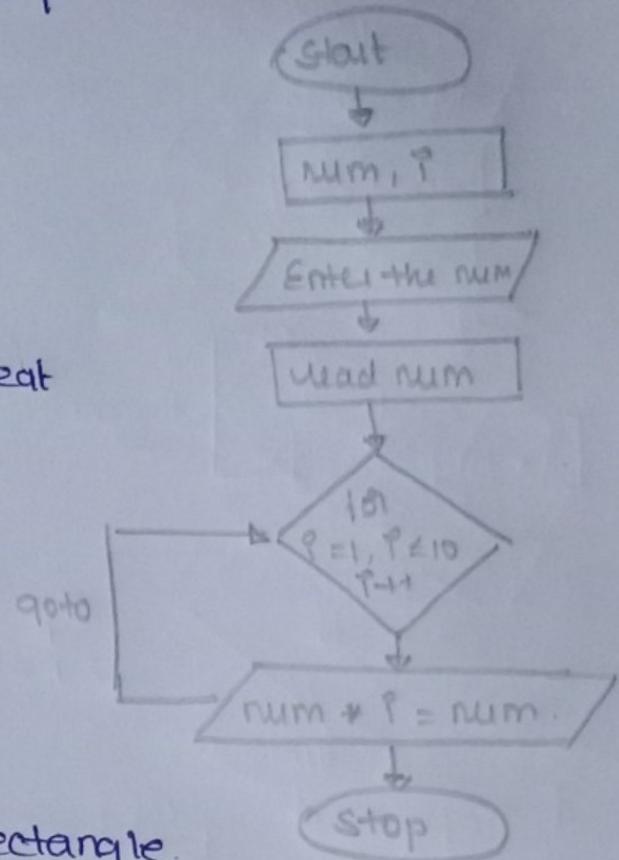
End if

4. Stop



⑩ Print multiplication table upto N.

1. Start
2. declare num, i
3. Print " Enter the num"
4. Read num.
5. $\text{for } i=1; i \leq 10; i++ \rightarrow \text{repeat}$
Print " num * i = num"
End i
6. Stop.



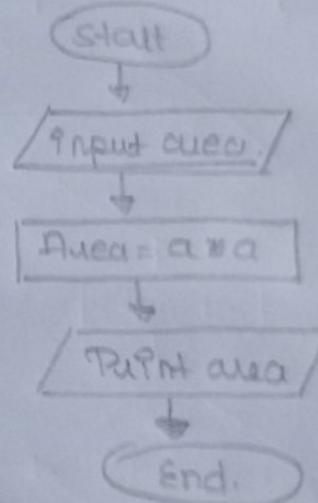
⑪ find area of square & rectangle.

1. Start
2. declare a, ~~a~~, ~~a~~ area
3. area = a * a
Print "area"
4. End.

1. Start (Square)

2. declare a, b, area
3. area = a * b
Print "area"
4. End.

.



(Rectangle)

