1.AREA OF RECTANGLE

ALGORITHM:

Step 1: Start

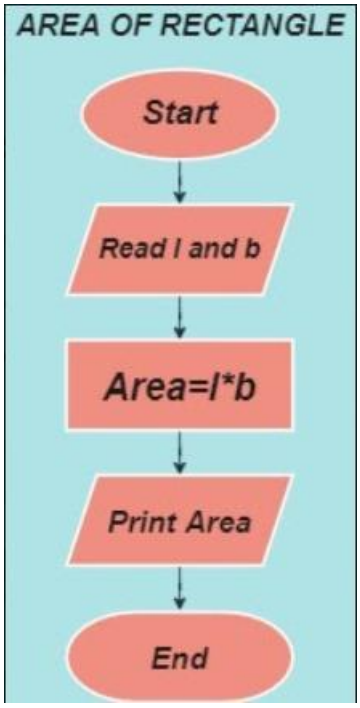
Step 2: get l , b values

Step 3: Calculate Area=l*b

Step 4: Display Area

Step 5: Stop

FLOWCHART:



PSEUDOCODE:

BEGIN

READ l , b

CALCULATE Area=l*b

DISPLAY Area

END

2. AREA & CIRCUMFERENCE OF CIRCLE

ALGORITHM:

Step 1: Start

Step 2: get r value

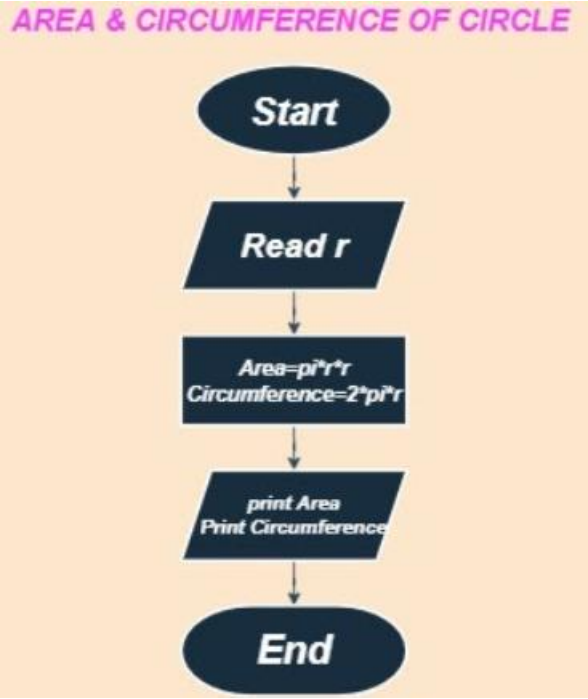
Step 3: Calculate Area=pi*r*r

Step 4: Calculate Circumference=2*pi*r

Step 5: Display A , C

Step 6: Stop

FLOWCHART:



PSEUDOCODE:

BEGIN

READ r

CALCULATE A and C

Area=pi*r*r

Circumference=2*pi*r

DISPLAY Area

END

3. SIMPLE INTEREST

ALGORITHM:

Step 1: Start

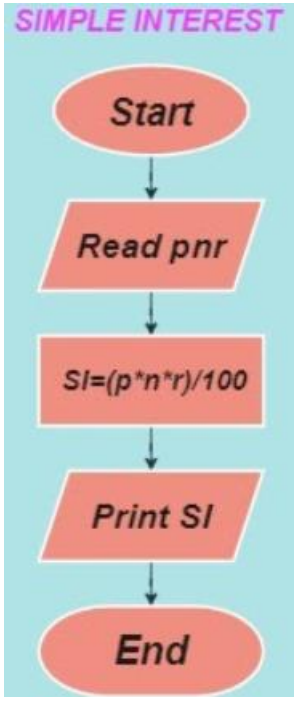
Step 2: get p, n, r value

Step3:Calculate SI=(p*n*r)/100

Step 4: Display SI

Step 5: Stop

FLOWCHART:



PSEUDOCODE:

BEGIN

READ P, n, r

CALCULATE S

SI=(p*n*r)/100

DISPLAY SI

END

4. ENGINEERING CUT OFF

ALGORITHM:

Step 1: Start

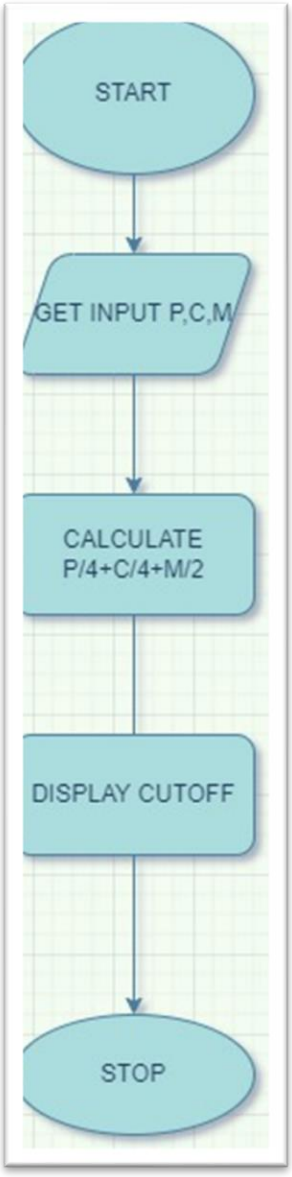
Step2: get P , C , M value

Step3: calculate Cut off= (P/4+C/4+M/2)

Step 4: Display Cut off

Step 5: Stop

FLOWCHART:



PSEUDOCODE:

BEGIN

READ P , C , M

CALCULATE

Cut off= (P/4+C/4+M/2)

DISPLAY Cut off

END

5. GREATEST OF TWO NUMBERS

ALGORITHM:

Step 1: Start

Step 2: get a , b value

Step 3: check if (a>b) print a is greater

Step 4: else b is greater

Step 5: Stop

PSEUDOCODE:

BEGIN

READ a , b

IF (a>b) THEN

  DISPLAY a is greater

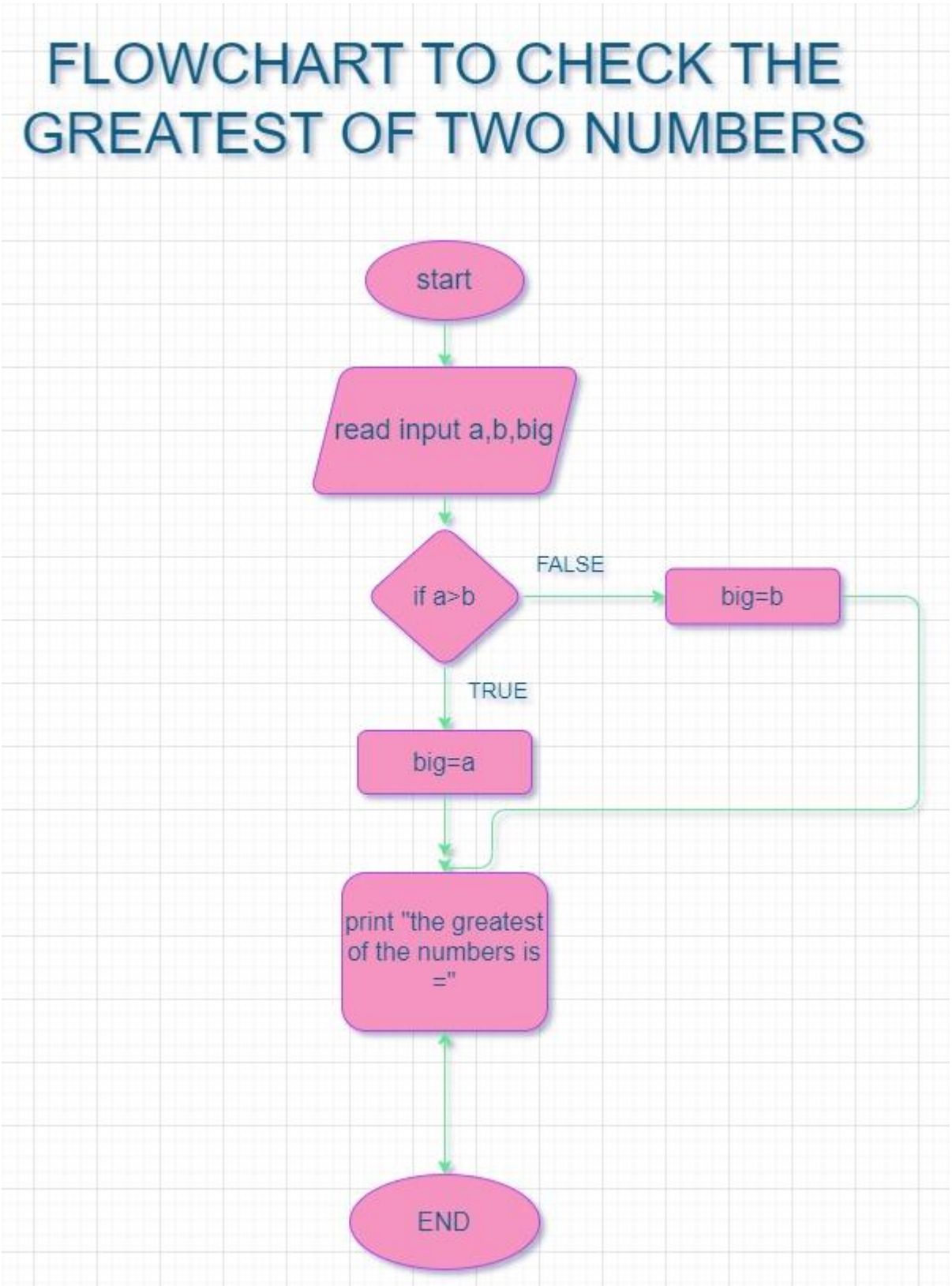
ELSE

  DISPLAY b is greater

END IF

END

FLOWCHART:


FLOWCHART TO CHECK THE GREATEST OF TWO NUMBERS
start
read input a,b,big
if a>b
FALSE
big=b
TRUE
big=a
print "the greatest of the numbers is ="
END

6. POSITIVE OR NEGATIVE NUMBER

ALGORITHM:

Step 1: Start

Step 2: get num

Step 3: check if(num>0) print a is positive

Step 4: else num is negative

Step 5: Stop

PSEUDOCODE:

BEGIN

READ num

IF (num>0) THEN

  DISPLAY num is positive

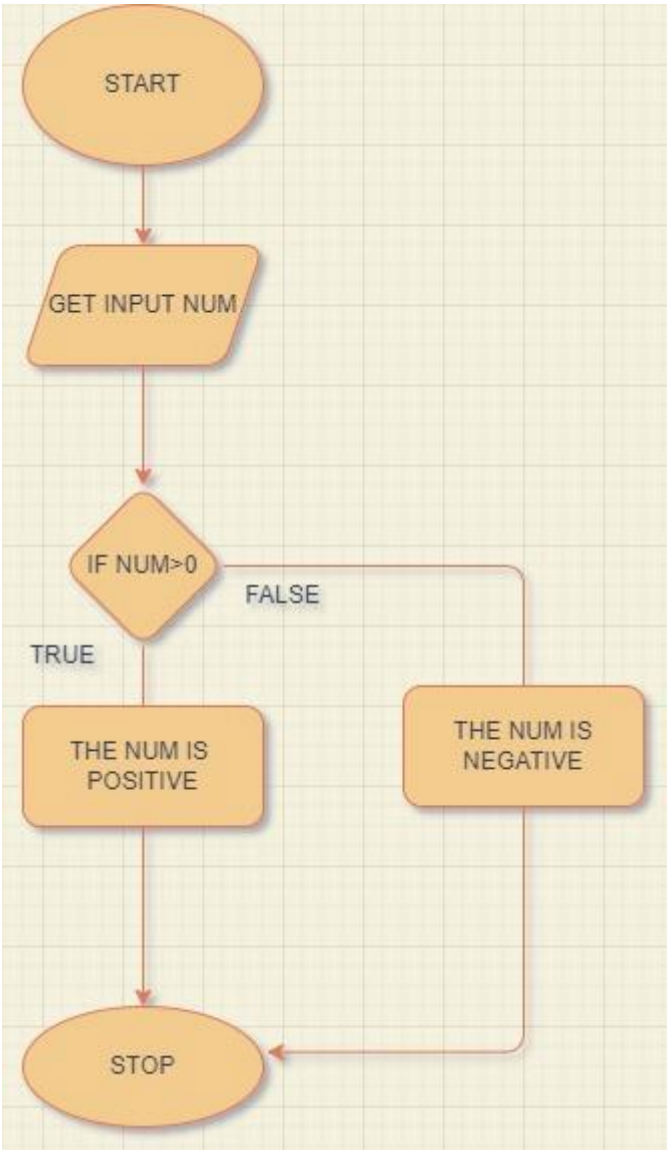
ELSE

  DISPLAY num is negative

END IF

END

FLOWCHART:


START
GET INPUT NUM
IF NUM>0
FALSE
TRUE
THE NUM IS POSITIVE
THE NUM IS NEGATIVE
STOP

7. ODD OR EVEN

ALGORITHM:

Step 1: Start

Step 2: get num

Step 3: check if(num%2==0) print num is even

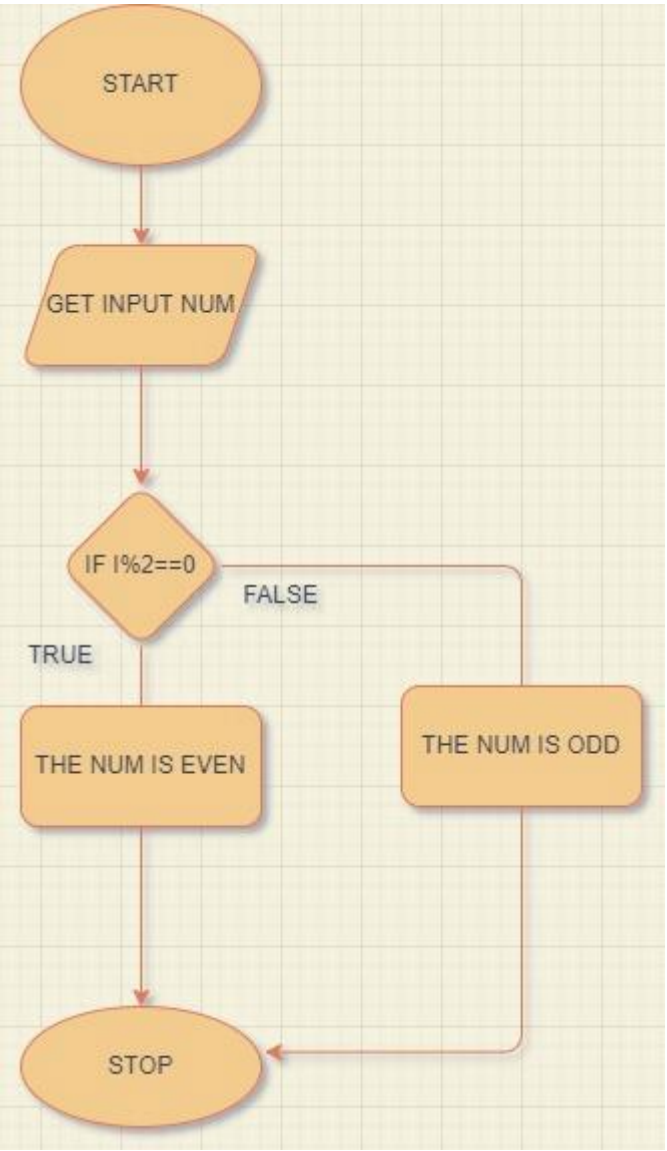
Step 4: else num is odd

Step 5: Stop

PSEUDOCODE:

```
BEGIN
READ num
IF (num%2==0) THEN
   DISPLAY num is even
ELSE
   DISPLAY num is odd
END IF
END
```

FLOWCHART:


START
GET INPUT NUM
IF I%2==0
FALSE
TRUE
THE NUM IS EVEN
THE NUM IS ODD
STOP

8. GREATEST OF TWO NUMBERS

ALGORITHM:

Step1: Start

Step2: Get A, B

Step3: if (A>B) print A else print B

Step4: Stop

PSEUDOCODE:

BEGIN

READ A , B

IF (a>b) THEN

  DISPLAY A is greater

ELSE

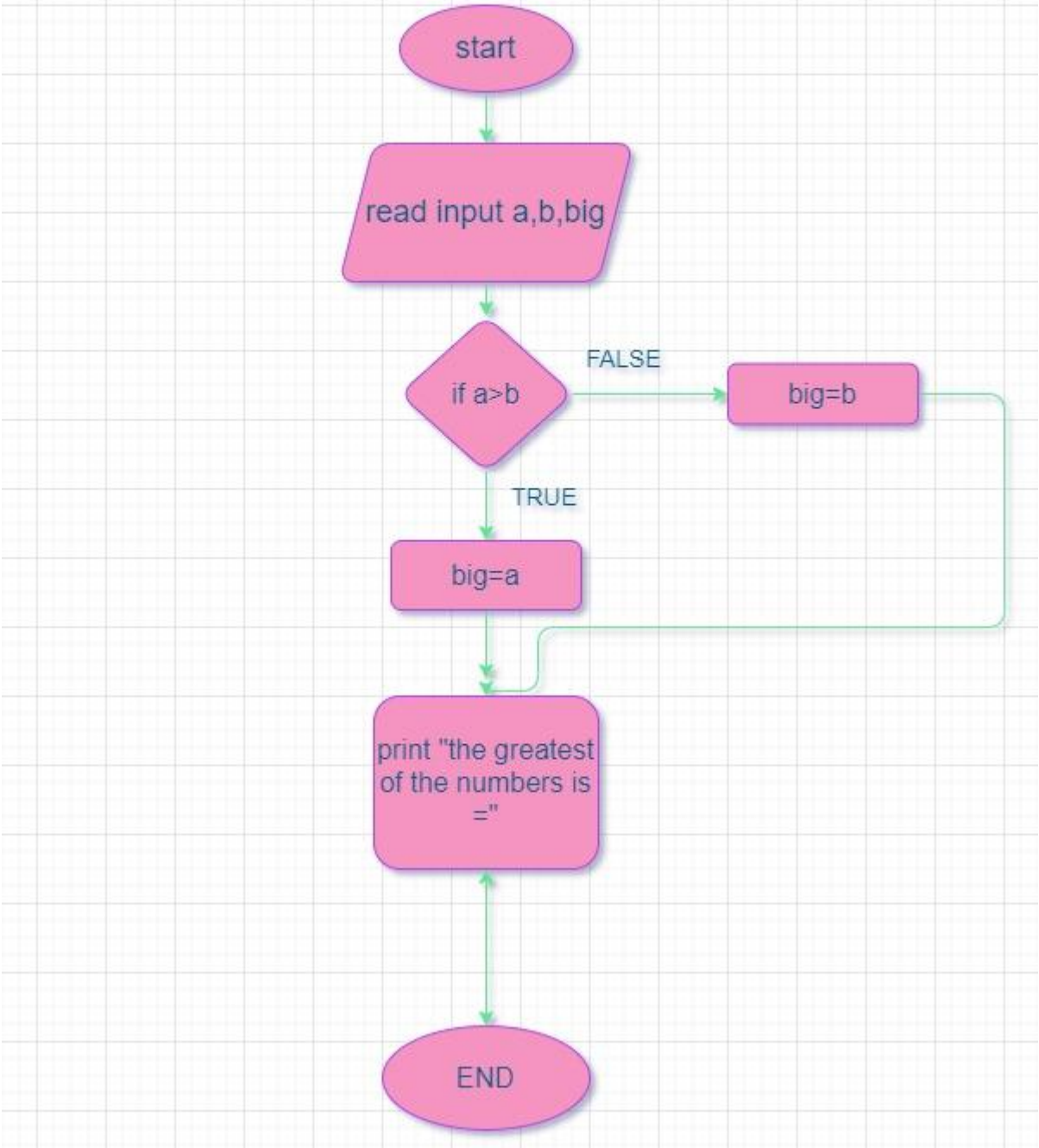
  DISPLAY B is greater

END IF

END

FLOWCHART:

FLOWCHART TO CHECK THE GREATEST OF TWO NUMBERS



9. POSITIVE , NEGATIVE OR ZERO

ALGORITHM:

Step 1 : Start

Step 2 : Get n value

Step 3 : if (n ==0) print “Given number is Zero” Else go to step4

Step 4 : if (n > 0) then Print “Given number is +ve”

Step 5 : else Print “Given number is -ve”

Step 6 : Stop

FLOWCHART:

PSEUDOCODE:

```
BEGIN
GET n
IF(n==0) THEN
   DISPLAY “ n is zero”
ELIF
   IF(n>0) THEN
      DISPLAY “n is positive”
ELSE
       DISPLAY “n is positive”
END IF
END IF
END
```

10. ALL NATURAL NUMBERS UPTO N

ALGORITHM:

Step 1 : Start

Step 2 : get n value.

Step 3 : initialize i=1

Step 4 : if (i<=n) go to step 5 else go to step 8

Step 5 : Print i value

step 6 : increment i value by 1

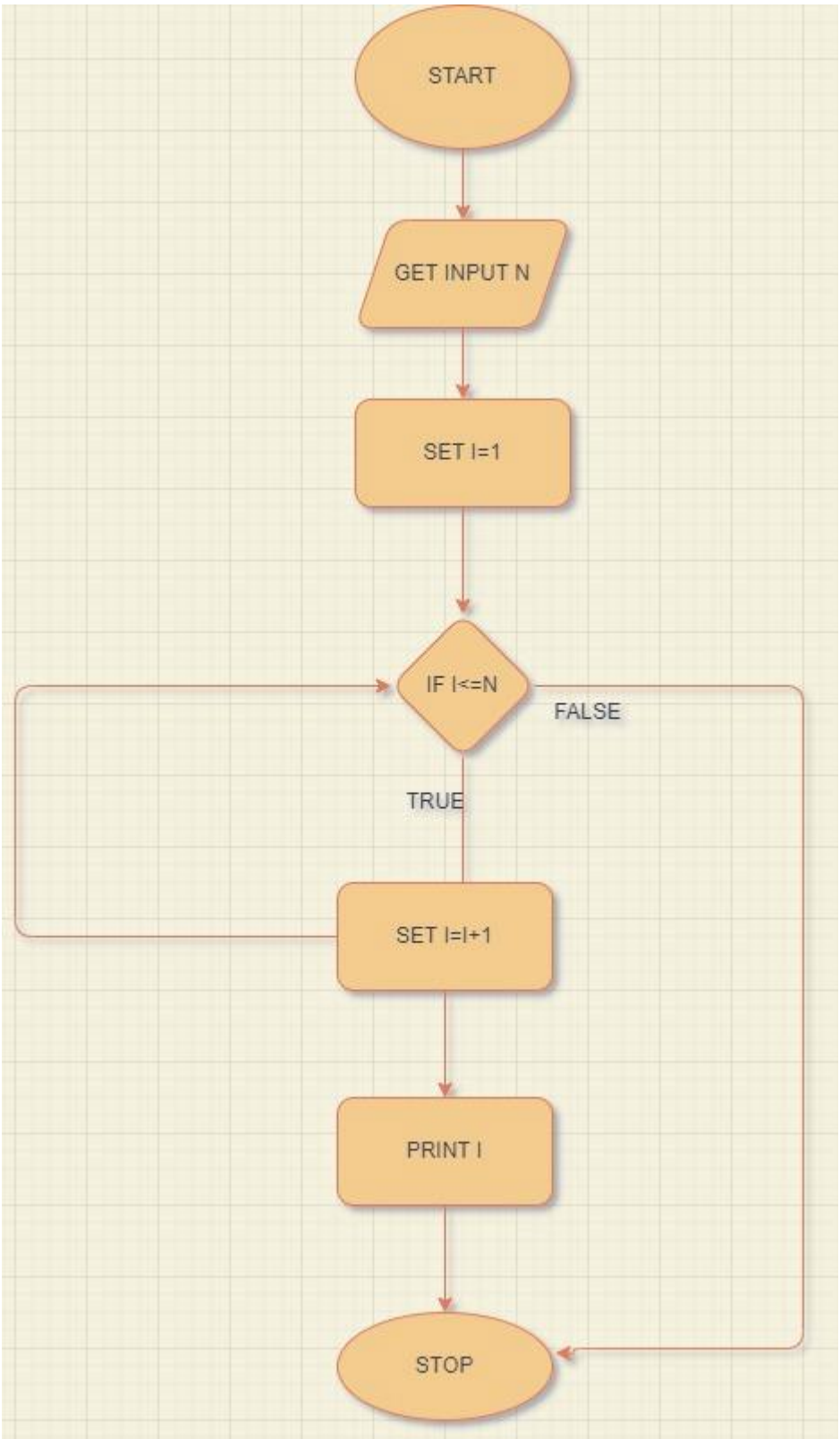
Step 7 : go to step 4

Step 8 : Stop

PSEUDOCODE:

```
BEGIN
GET n
INITIALIZE i=1
WHILE (i<=n) DO
   PRINT i
   i=i+1
ENDWHILE
END
```

FLOWCHART:



11. N ODD NUMBERS

ALGORITHM:

Step 1: start

step 2: get n value

step 3: set initial value i=1

step 4: check if(i<=n) go to step 5 else go to step 8

step 5: print i value

step 6: increment i value by 2

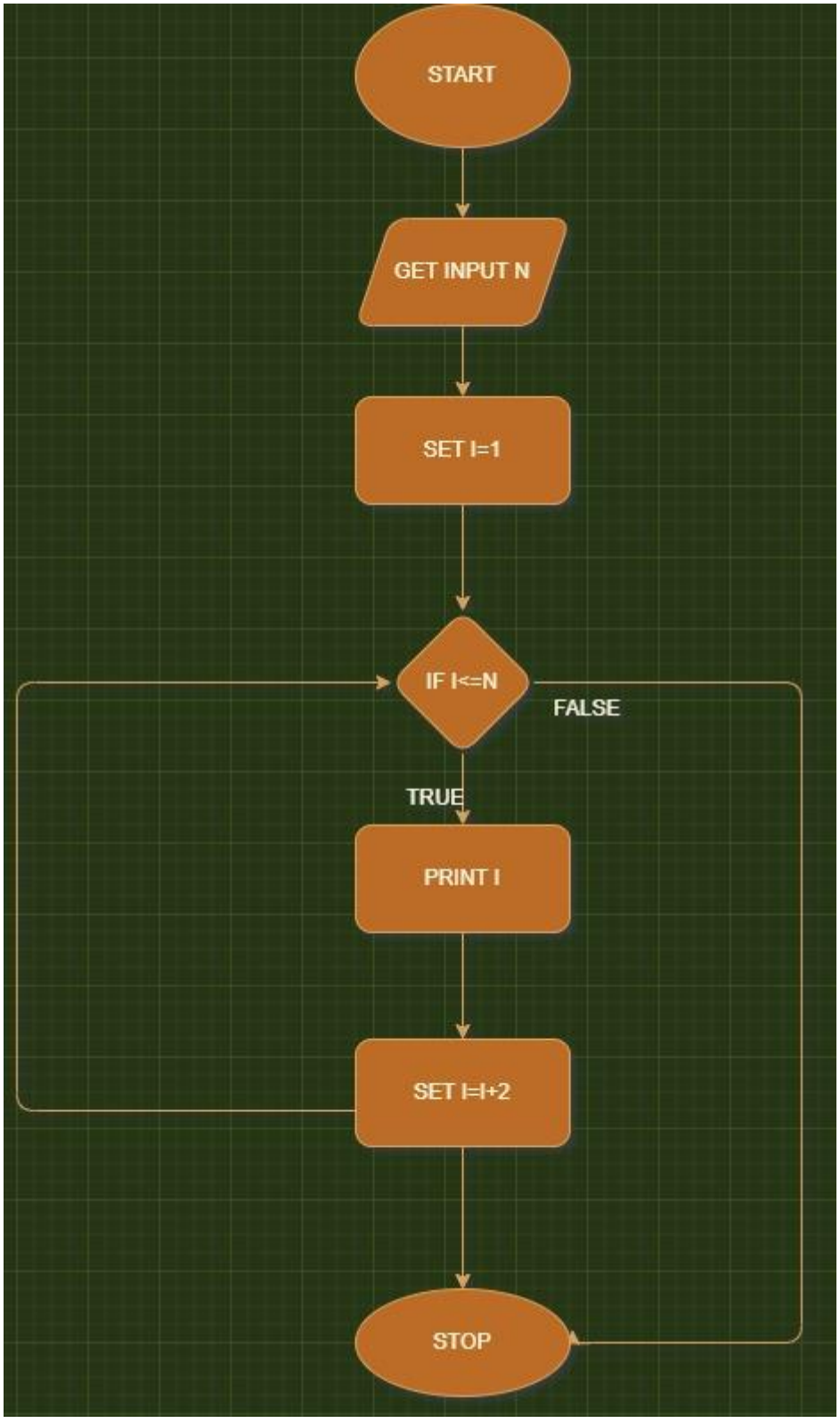
step 7: go to step 4

step 8: stop

PSEUDOCODE:

```
BEGIN
GET n
INITIALIZE i=1
WHILE(i<=n) DO
   PRINT i
   i=i+2
ENDWHILE
END
```

FLOWCHART:



12. N EVEN NUMBERS

ALGORITHM:

Step 1: start

step 2: get n value

step 3: set initial value i=2

step 4: check if(i<=n) go to step 5 else go to step8

step 5: print i value

step 6: increment i value by 2

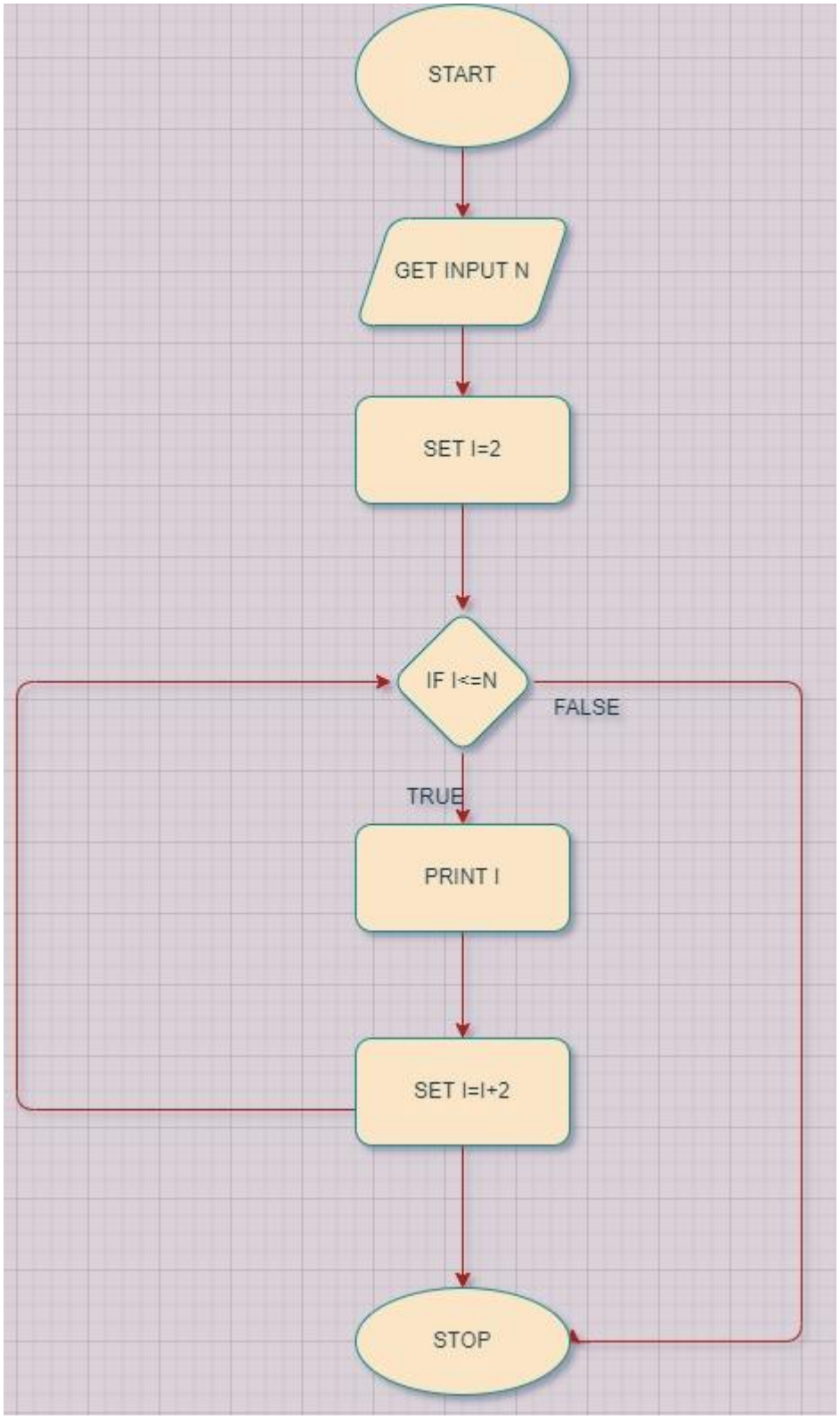
step 7: go to step 4

step 8: stop

PSEUDOCODE:

```
BEGIN
GET n
INITIALIZE i=2
WHILE(i<=n) DO
   PRINT i
    i=i+2
ENDWHILE
END
```

FLOWCHART:



13. SQUARES OF A NUMBER

ALGORITHM:

Step 1: start

step 2: get n value

step 3: set initial value i=1

step 4: check i value if(i<=n) go to step 5 else go to step8

step 5: print i*i value

step 6: increment i value by 1

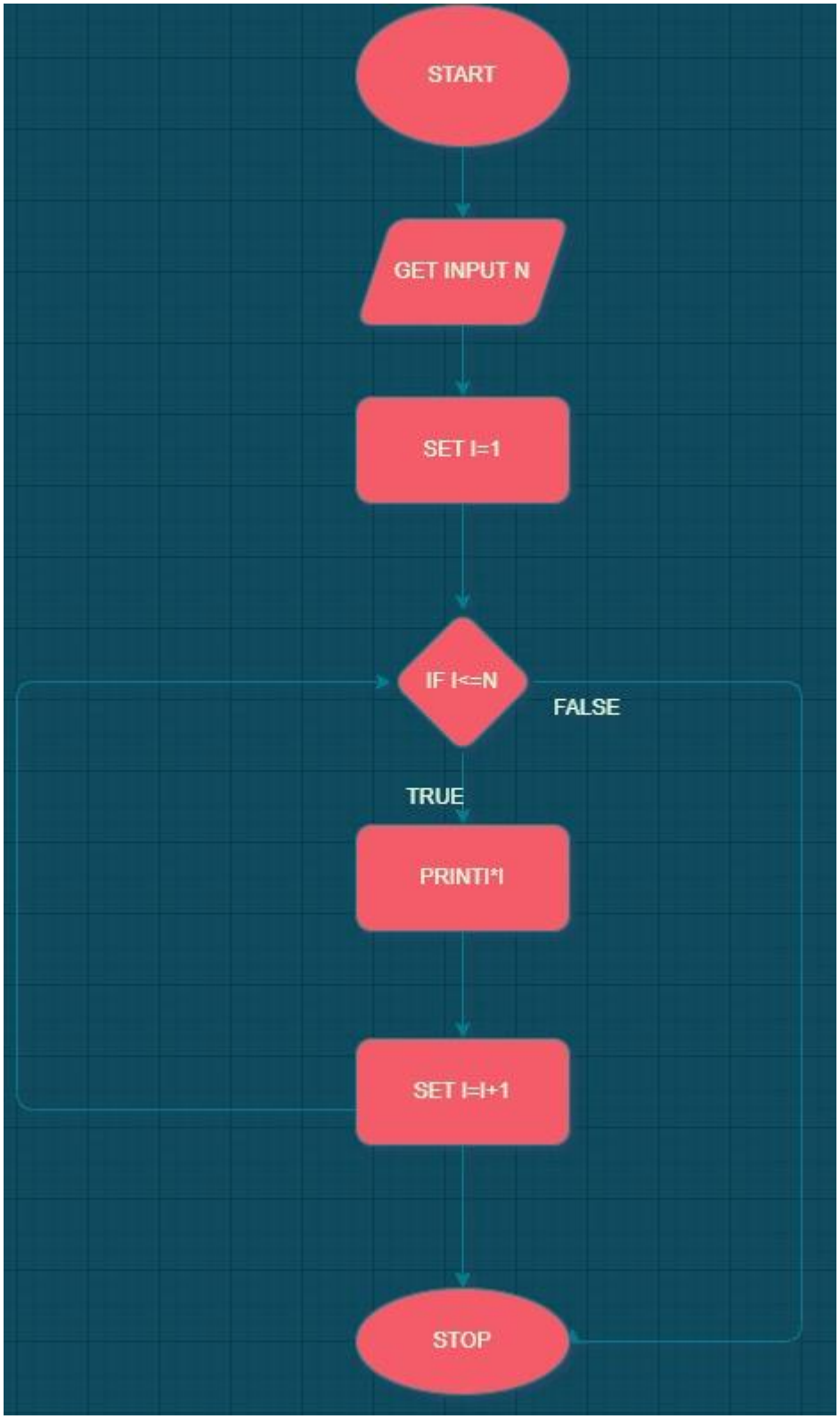
step 7: go to step 4

step 8: stop

PSEUDOCODE:

```
BEGIN
GET n
INITIALIZE i=1
WHILE(i<=n) DO
   PRINT i*i
   i=i+2
ENDWHILE
END
```

FLOWCHART:


START
GET INPUT N
SET I=1
IF I<=N
FALSE
TRUE
PRINTI*I
SET I=I+1
STOP

14. CUBES OF A NUMBER

ALGORITHM:

Step 1: start

step 2: get n value

step 3: set initial value i=1

step 4: check i value if(i<=n) go to step 5 else go to step8

step 5: print i*i *i value

step 6: increment i value by 1

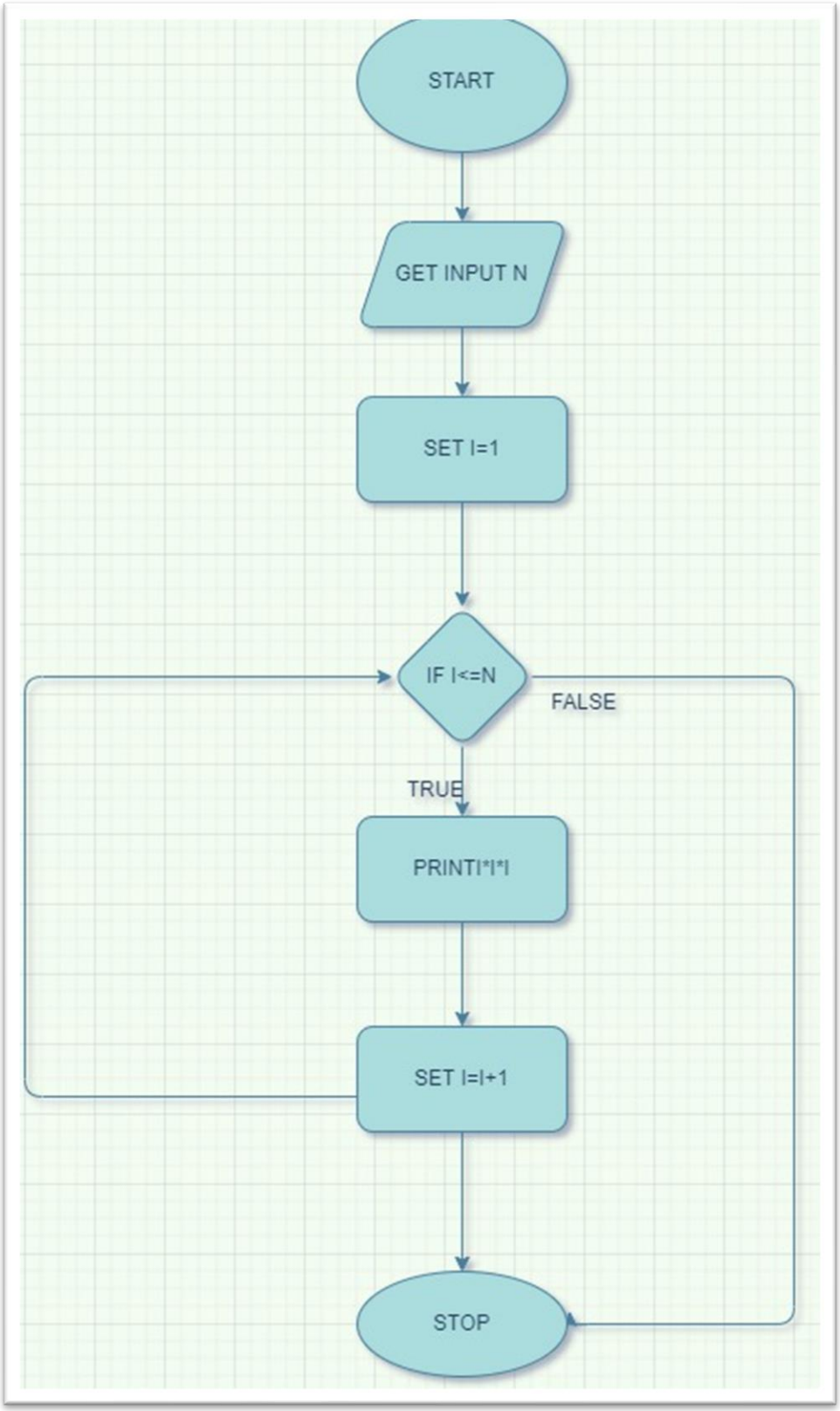
step 7: go to step 4

step 8: stop

PSEUDOCODE:

```
BEGIN
GET n
INITIALIZE i=1
WHILE(i<=n) DO
   PRINT i*i*i
   i=i+2
ENDWHILE
END
```

FLOWCHART:


START
GET INPUT N
SET I=1
IF I<=N
FALSE
TRUE
PRINTI*I*I
SET I=I+1
STOP

15. SUM OF A GIVEN NUMBER

ALGORITHM:

Step 1: start

step 2: get n value

step 3: set initial value i=1, sum=0

Step 4: check i value if(i<=n) go to step 5 else go to step8

step 5: calculate sum=sum+i

step 6: increment i value by 1

step 7: go to step 4

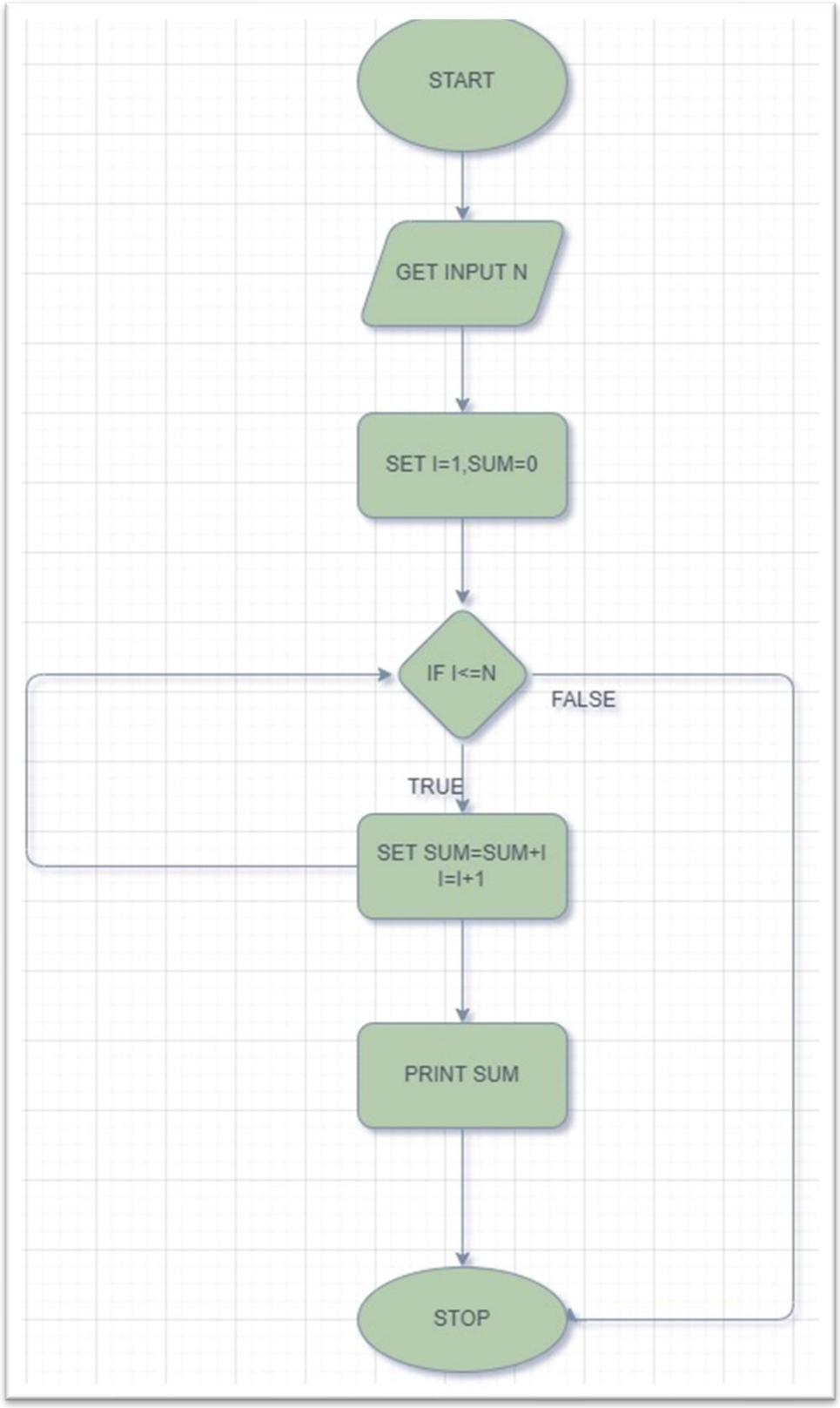
step 8: print sum value

step 9: stop

PSEUDOCODE:

```
BEGIN
GET n
INITIALIZE i=1,sum=0
WHILE(i<=n) DO
   sum=sum+i
   i=i+1
ENDWHILE
PRINT sum
END
```

FLOWCHART:


START
GET INPUT N
SET I=1,SUM=0
IF I<=N
FALSE
TRUE
SET SUM=SUM+I
I=I+1
PRINT SUM
STOP

16. FACTORIAL OF A GIVEN NUMBER

ALGORITHM:

Step 1: start

step 2: get n value

step 3: set initial value i=1, fact=1

Step 4: check i value if(i<=n) go to step 5 else go to step8

step 5: calculate fact=fact*i

step 6: increment i value by 1

step 7: go to step 4

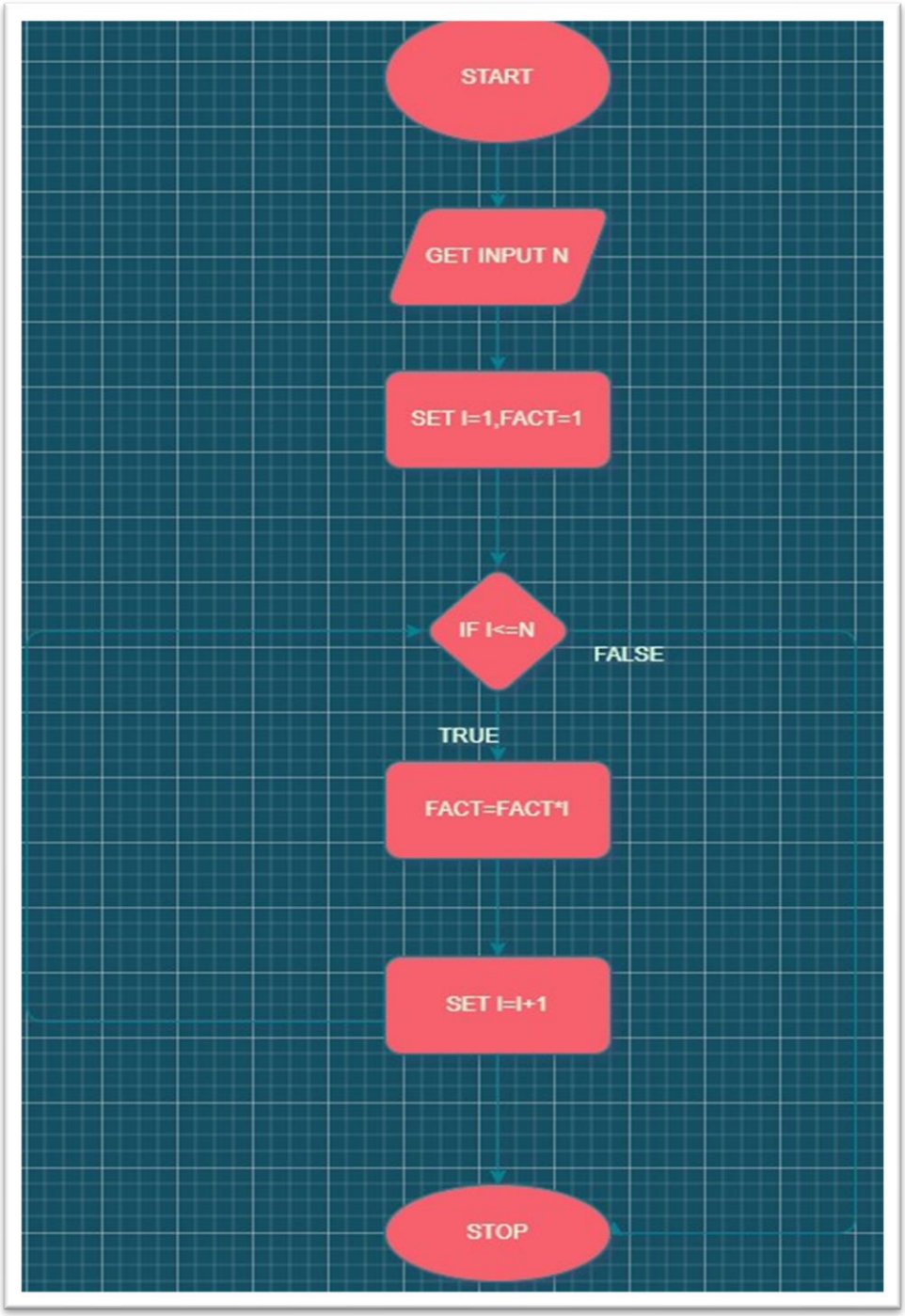
step 8: print fact value

step 9: stop

PSEUDOCODE:

```
BEGIN
GET n
INITIALIZE i=1,fact=1
WHILE(i<=n) DO
   fact=fact*i
   i=i+1
ENDWHILE
PRINT fact
END
```

FLOWCHART:


START
GET INPUT N
SET I=1,FACT=1
IF I<=N
FALSE
TRUE
FACT=FACT*I
SET I=I+1
STOP