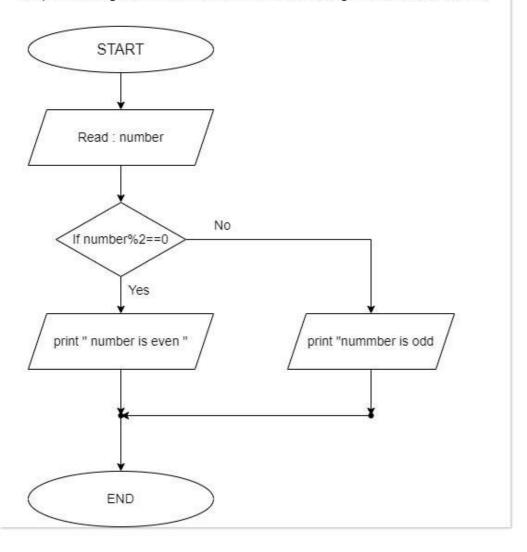
Q.1) write a algorithm and flow chart for check the given no. is even or odd



Algorithm

step1: START

step2: Read number form user

step3: cheak number%2==0

if false goto step 5 if true goto next step 4

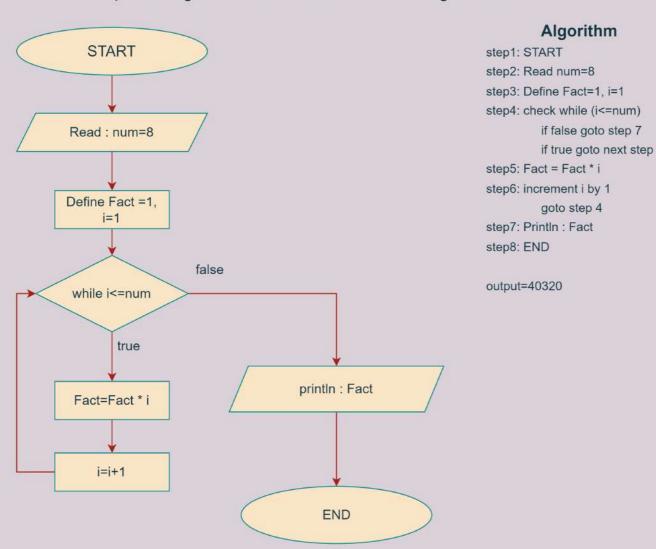
step4: print "number is even"

goto step 6

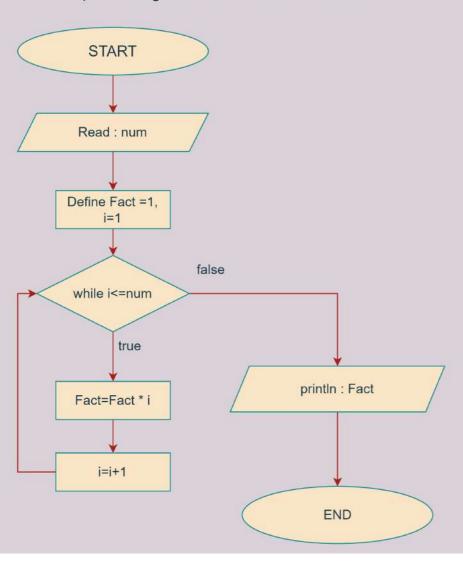
step5: print "number is odd

step6: END

Q.2) write a algorithm and flow chart for Factorial of a given number.



Q.3) write a algorithm and flow chart for Factorial of a number using recursion.



Algorithm

step1: START

step2: Read num

step3: Define Fact=1, i=1

step4: check while (i<=num)

if false goto step 7

if true goto next step

step5: Fact = Fact * i

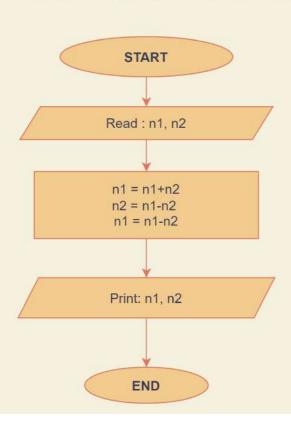
step6: increment i by 1

goto step 4

step7: Println: Fact

step8: END

Q.4) write a algorithm and flowchart for Swap two numbers without using the third variable approach.



Algorithm

step1: START

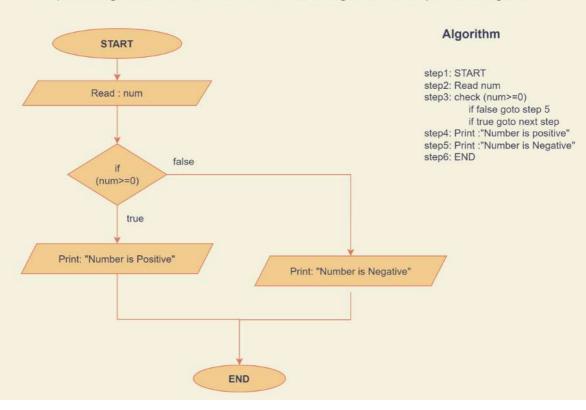
step2: Read n1, n2

step3: Add n1+n2 & store in n1 step4: Sub n1-n2 & store in n2 step5: Sub n1-n2 & store in n1

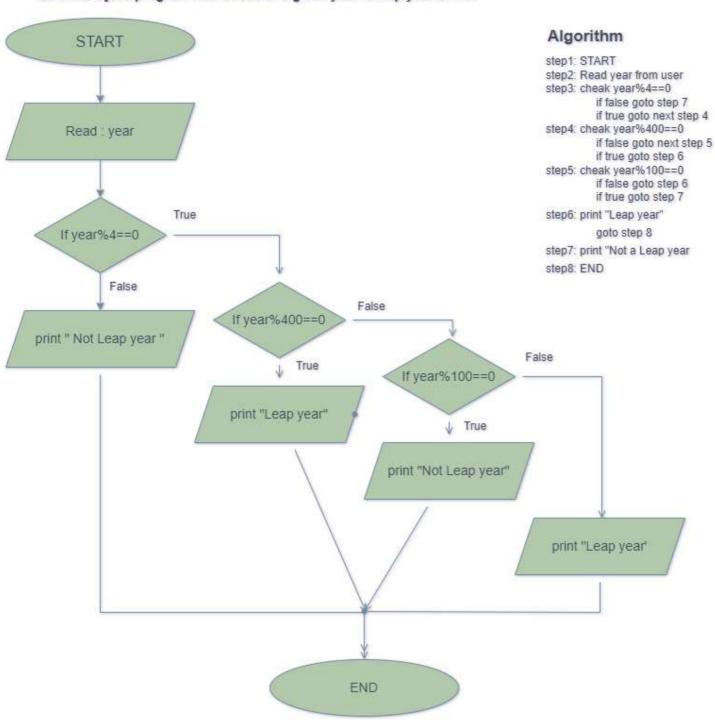
step6: Print: n1, n2

step7: END

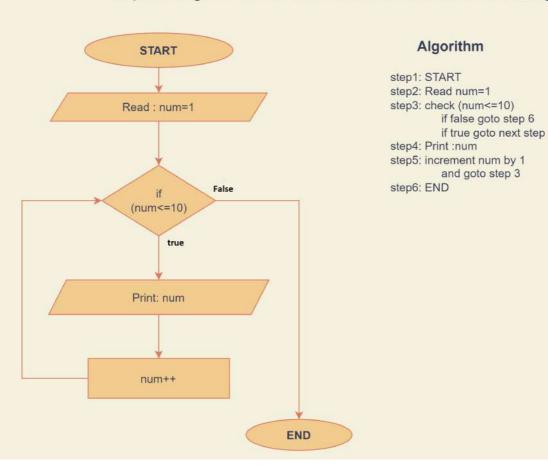
Q.5) write a algorithm and flowchart for check whether the given number is positive or negative.



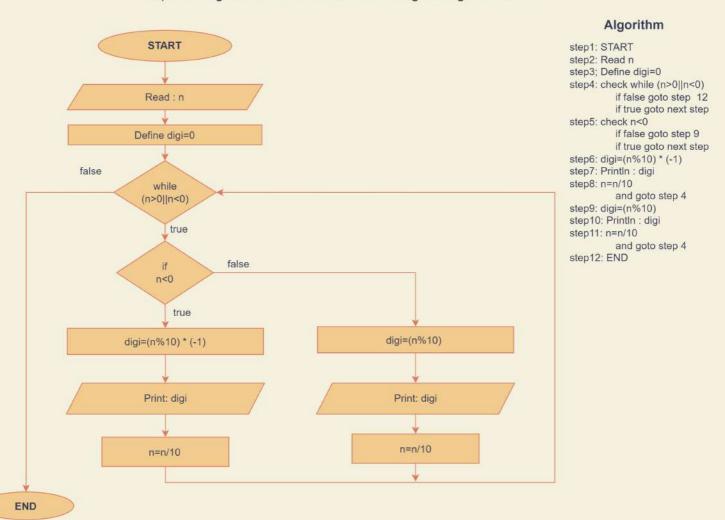
Q6 Write a java program find wheather a given year is leap year or not



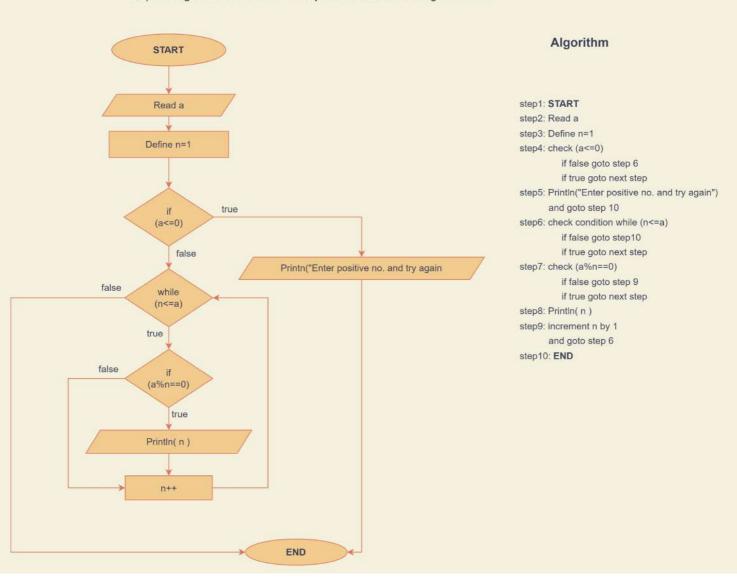
Q.7) write a algorithm and flowchart for Print 1 to 10 number Without using Loop.



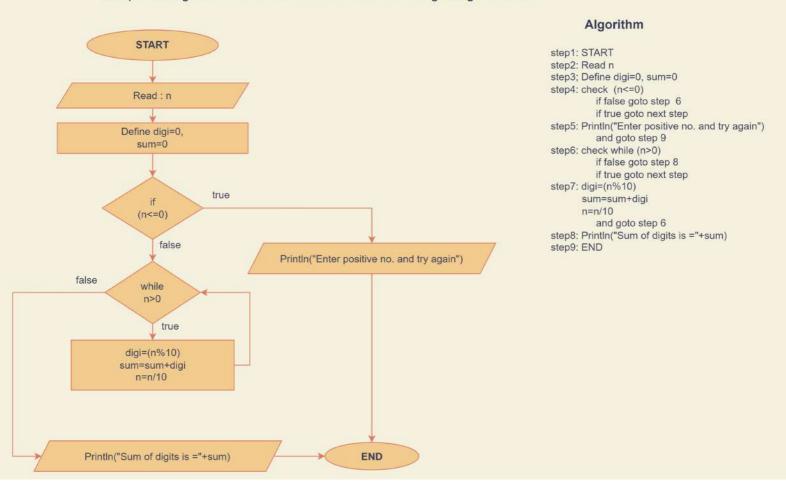
Q.8) write a algorithm and flowchart for Print the digits of a given number.



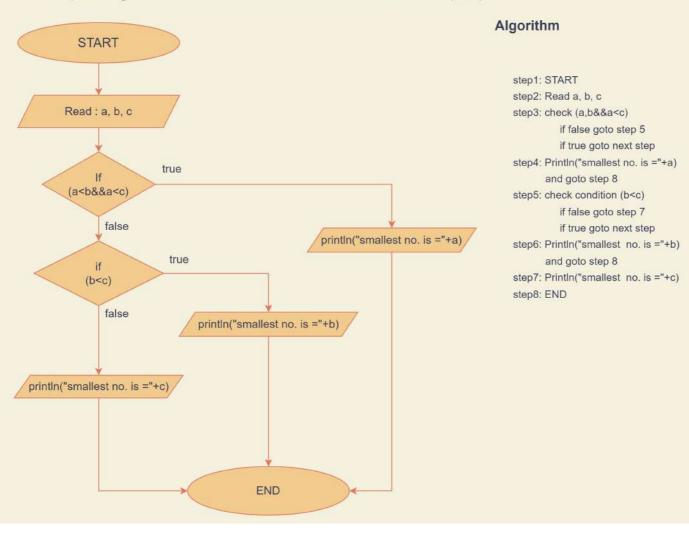
Q.9) write algorithm and flowchart for To print all the factors of the given number.



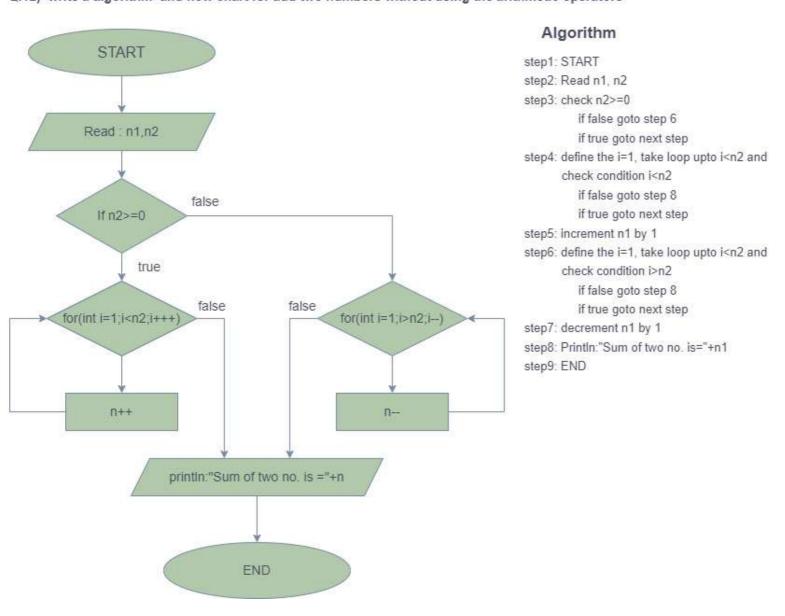
Q.10) write a algorithm and flowchart for Find the sum of the digits of given number.



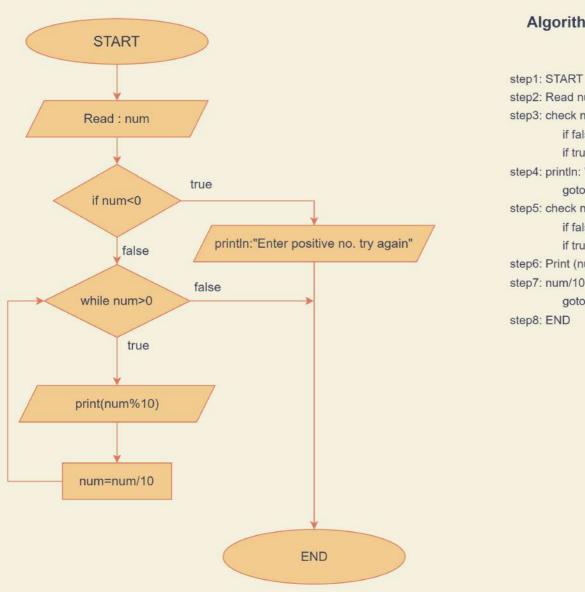
Q.11) write algorithm and flow chart for To Find the smallest of 3 numbers (a,b,c).



Q.12) write a algorithm and flow chart for add two numbers without using the arithmetic operators



Q.13) write a algorithm and flow chart for Reverse a given number.



Algorithm

step2: Read num

step3: check num<0

if false goto step 5 if true goto next step

step4: println: "Enter poditive no. try again"

goto step 8

step5: check num>0

if false goto step 8

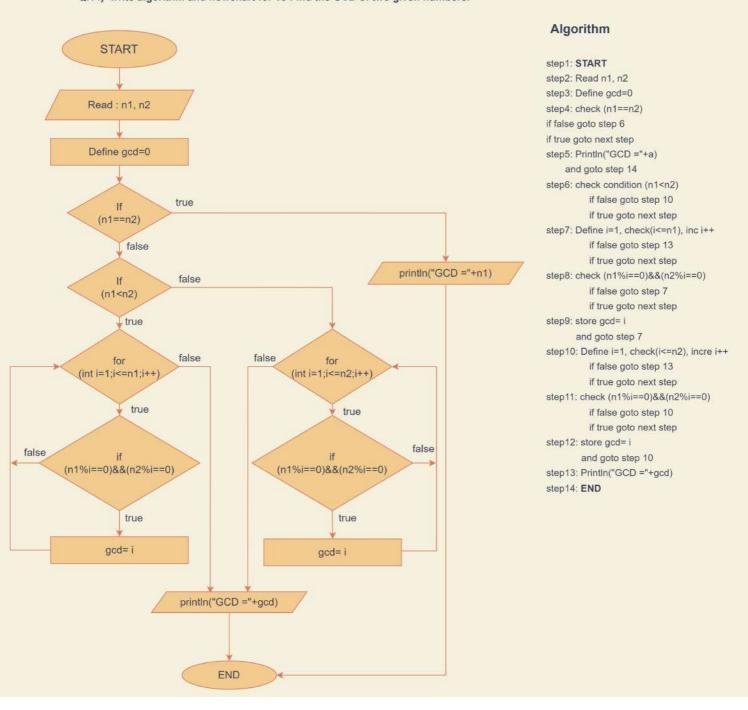
if true goto next step

step6: Print (num%10)

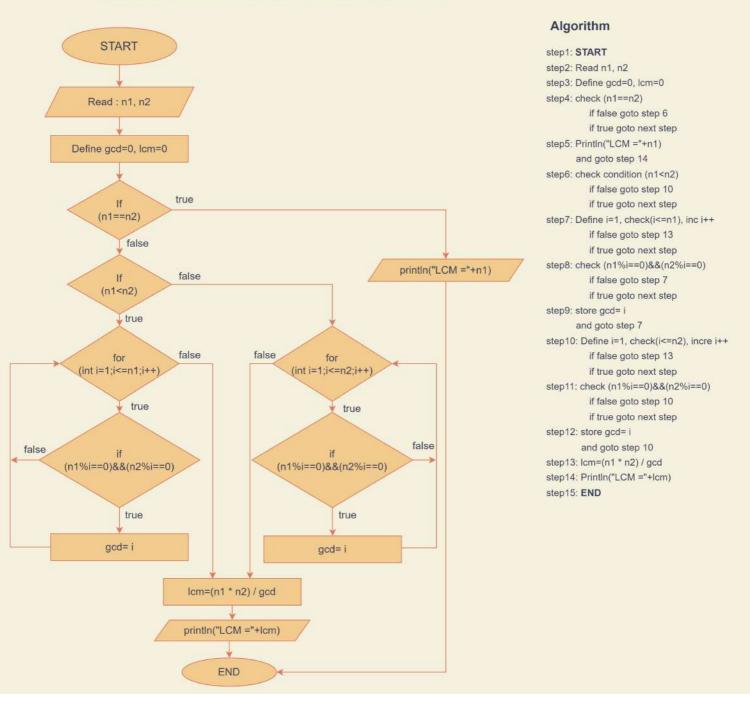
step7: num/10 and store num

goto step 5

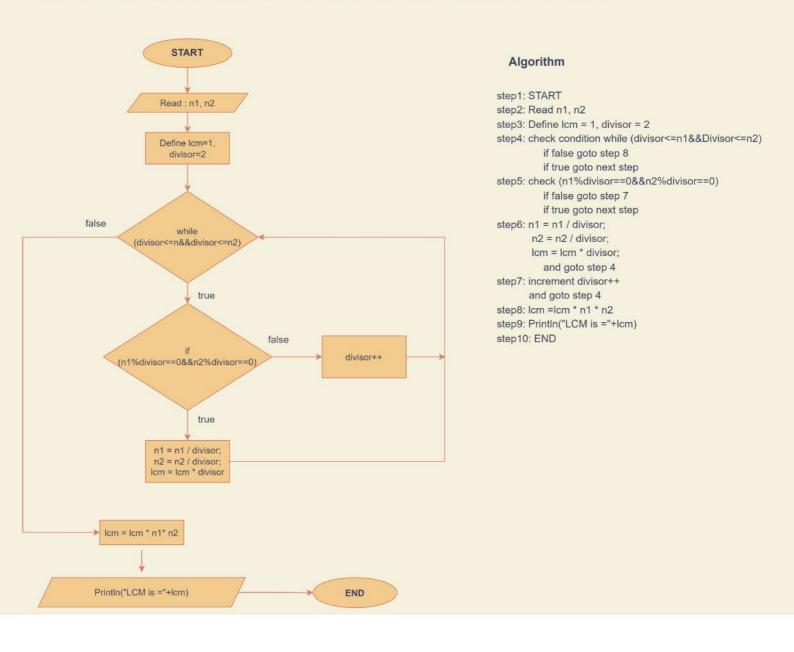
Q.14) write algorithm and flowchart for To Find the GCD of two given numbers.



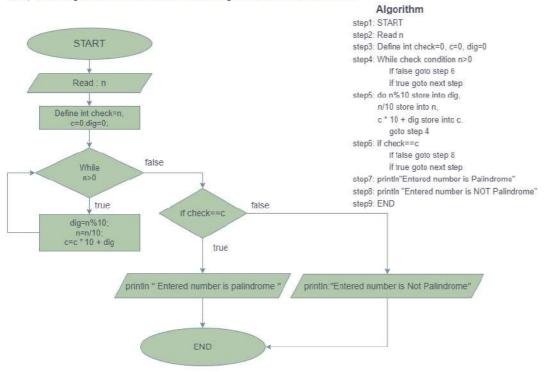
Q.15) write algorithm and flowchart for To LCM of two given numbers.



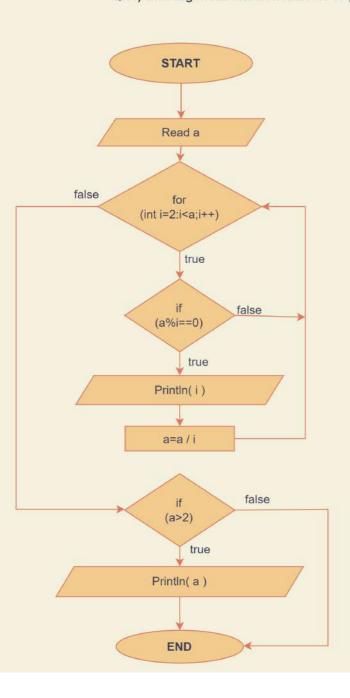
Q.16) write algorithm and flowchart for To LCM of two given numbers using the Prime factors method.



Q.17) write a algorithm and flowchart for check the given no. is Palindrome or NOT



Q.18) write algorithm and flowchart for To print all the Prime factors of the given number.



Algorithm

step1: START

step2: Read a

step3: Define i=2 and check conditon(i<a) and i++

if false goto step 7

if true goto next step

step4: check (a%i==0)

if false goto step 3

if true goto next step

step5: Println(i)

step6: a = a / i and goto step 3

step7: check (a>2)

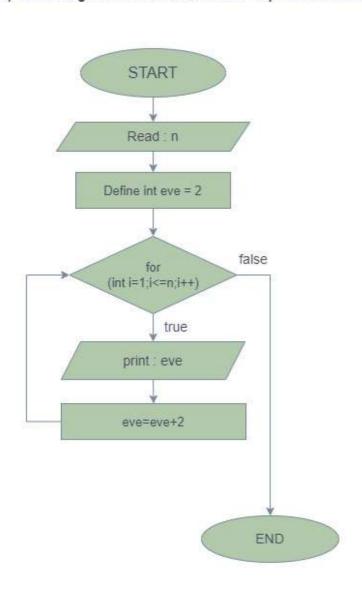
if false goto step 9

if true goto next step

step8: Println(a)

step9: END

Q.19) write a algorithm and flowchart for To print the EVEN number series 2 4 6 8 10n



Algorithm

step1: START

step2: Read n

step3: Define int eve=2

step4: for int i=1 check condition i<=n and increment i++

if false goto step 7 if true goto next step

step5 print : eve

step6: increment eve=eve+2

step7: END

Q20) write a algorithm and flowchart for To print the ODD number series 1 3 5 7 9 n

