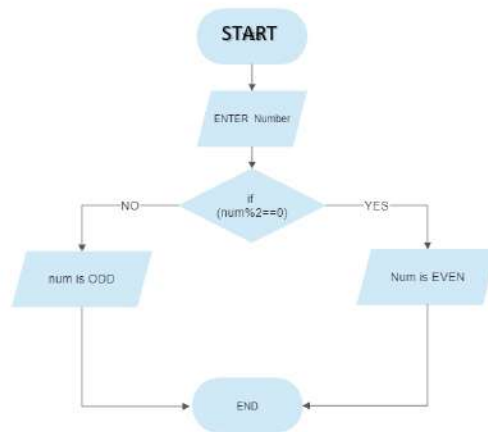


Q. Number is Even or ODD



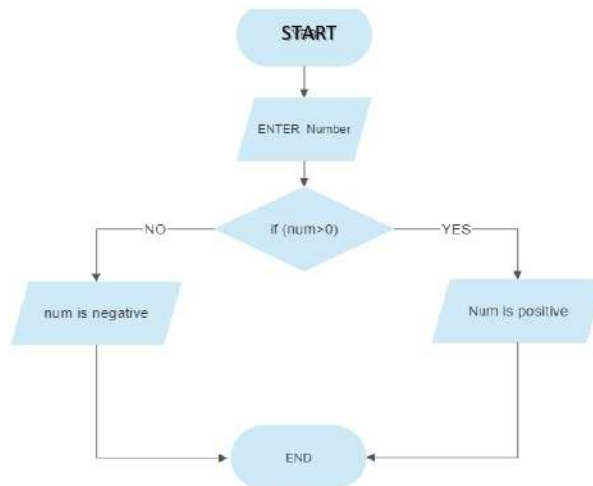
Algorithm:

step1: Declare variables

step2: take a input from user

step3 : if your entered number is divisible by 2 then its an Even number if not then its odd number.

Q Number is positive or negative ?



Algorithm

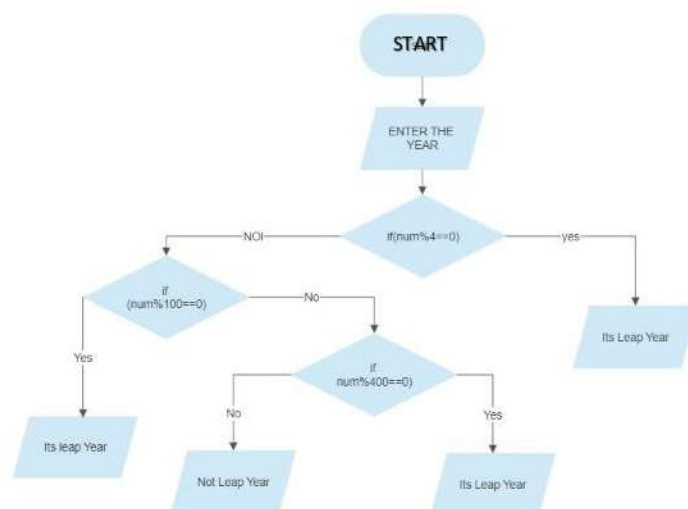
Step1: Declare variables

step2: take a input from user

step3 : if your entered number is greater than 0 then its an Positive number if not then its Negative number.

Step4: Display the output

Q. Check year is leap or not?



Algorithm

Step1: Declare variables

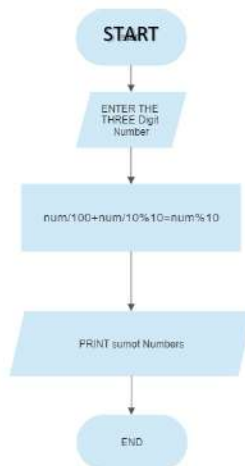
step2: take a input from user

step3: check if year is divisible by 4 if yes then it leap year. If not then go to step 4

step4: If year is century year then its leap year, if not go to step 5.

Step5: If year is divisible by 400 then its leap year if not then it's a regular year.

Q find sum of three digit numbers.



Algorithm

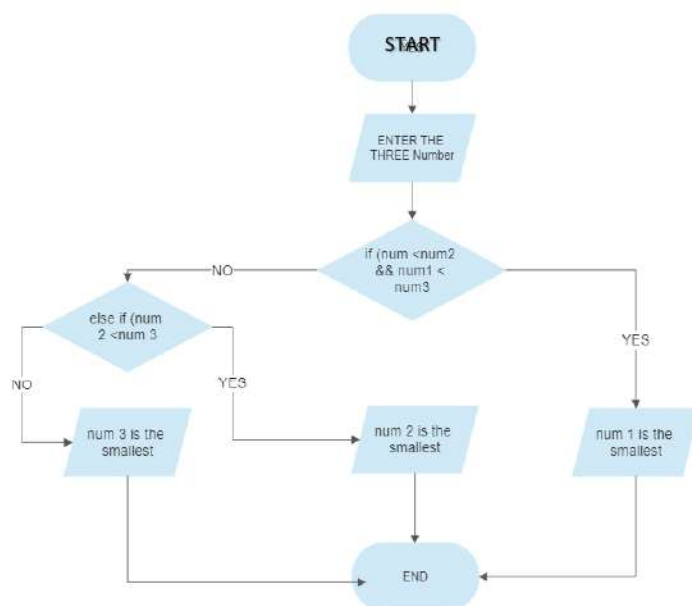
Step1: Declare variables

step2: take a input from user which is three digit number

step3: Separate user entered number by its unit place using formula
 $= num/100 + num/10\%10 + num\%10$

Step4: Display the sum

Q. Find smallest number in the 3 numbers



Algorithm

Step1: Declare variables

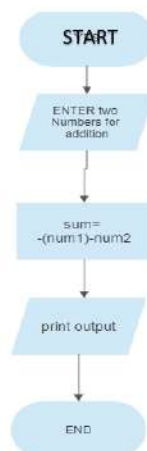
step2: take a input from user which is three numbers.

Step3: Compare that three numbers with each others

Step4: if num1 is less than num2 and num1 is less than num3 then num1 is the smallest if not then go to step 5.

Step5: if num2 is less than num3 then num2 is the smallest if not then num3 is the smallest.

Q. Addition of two numbers without + operator



Algorithm

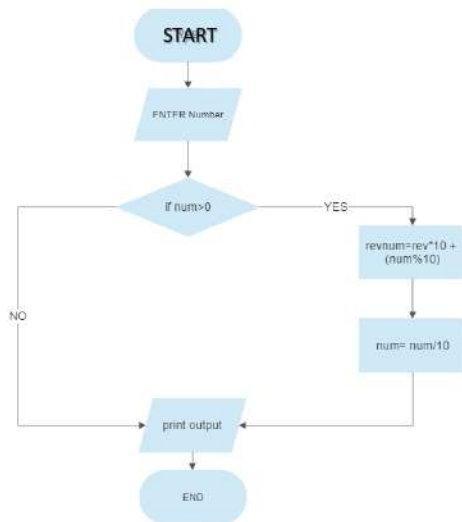
Step1: Declare variables

step2: take a input from user which is two numbers.

Step3: To add use formula $sum = -(num1) - num2$

Step4: print output

Q Reverse the given number



Algorithm

Step1: Declare variables

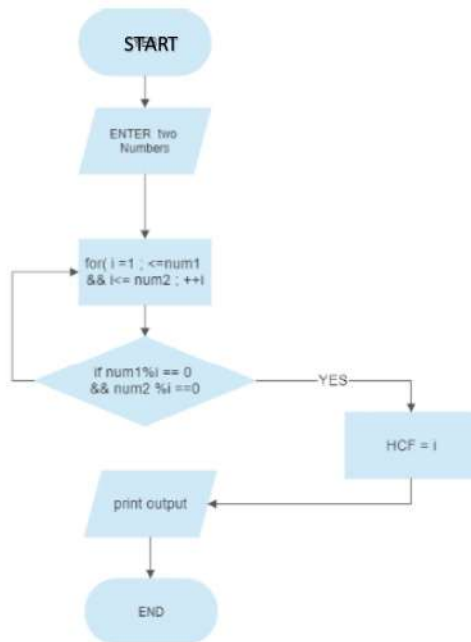
step2: take a input number from user.

Step3: If num is greater than zero then use formula to separate numbers from unit places, divide num by 10 then store this in variable

Step4: Now take mod of num by 10 and store value in another variable.

Step5: Print output first print another variable then first first variable.

Q. Find HCF



Algorithm

Step1: Declare variables

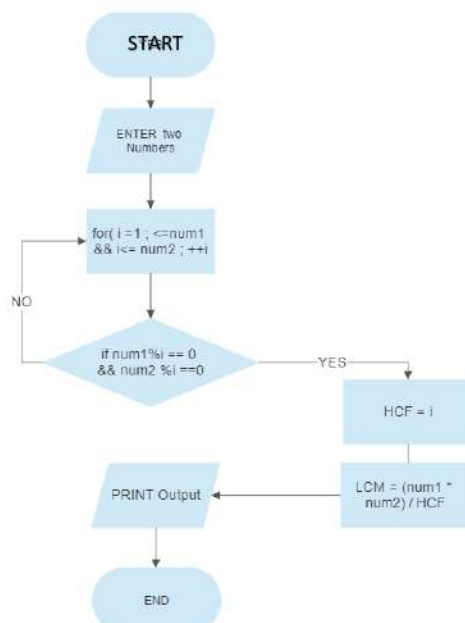
step2: take a input from user which is two numbers.

Step3: Run a for loop for condition $i=1 \leq \text{num1} \ \&\& \ i \leq \text{num2}; ++i$.

Step4: If number1&number2 gives reminder 0 then output is HCF. If not loop will run.

Step5: Print the output of HCF

Q. FIND LCM of Two numbers



Algorithm

Step1: Declare variables

step2: take a input from user which is two numbers.

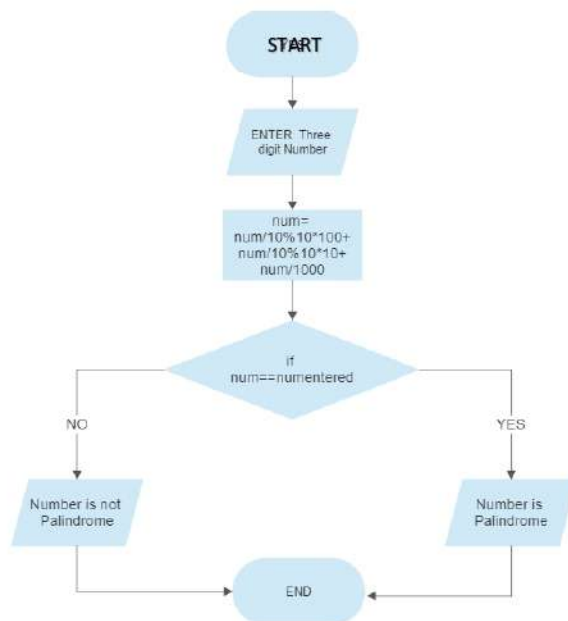
Step3: Run a for loop for condition $i=1 \leq \text{num1} \ \&\& \ i \leq \text{num2}; ++i$.

Step4: If number1&number2 gives reminder 0 then output is HCF. If not loop will run.

Step5: Now to find LCM, use formula $\text{num1} * \text{num2}$ and divide it by HCF.

Step6: Print LCM.

Q. check number is palindrome or not ?



Algorithm

Step1: Declare variables

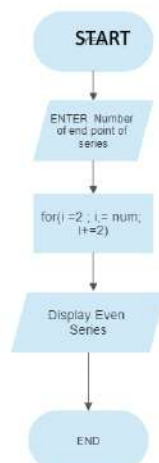
step2: take a input from user which is Three digit numbers.

Step3: use formula to calculate results. Number is divided by its unit place and then mod of that number with unit place is taken.

Step4: If number is what user entered then print Number is palindrome.

Step6: If number is not what user entered then print Number is not palindrome

Q. Print Even number series



Algorithm

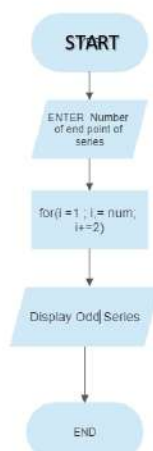
Step1: Declare variable as required.

Step2: Ask user to enter end point number when series will stop.

Step3: Use for loop and starting loop from 2 and condition to stop is user entered and increment series with 2.

Step4: Output will be printed with Even series.

Q. Odd number series



Algorithm

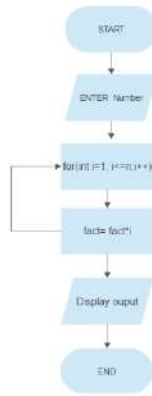
Step1: Declare variable as required.

Step2: Ask user to enter end point number when series will stop.

Step3: Use for loop and starting loop from 1 and condition to stop is user entered and increment series with 2.

Step4: Output will be printed with odd series.

Q. Find factorial.



Algorithm

Step1: Declare variable as required.

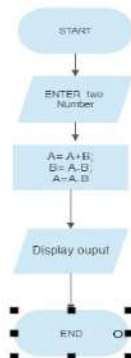
Step2: Ask user to enter the number.

Step3: run a for loop starting from i=1 to number less than or equal to num. entered by user. And each time increment the number, until condition satisfies.

Step4: Calculate Factorial by simply $fact = fact * i$.

Step5: Factorial of number entered by user is displayed.

Q. Swap number without third variable



Algorithm

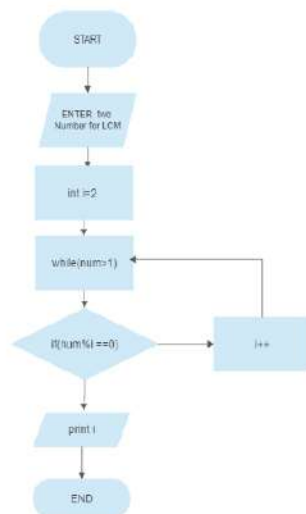
step1: Declare variables.

Step2: Take two numbers from user.

Step3: Evaluate formula $A = A+B$ and then $B = A-B$, $A = A-B$

Step4: Now numbers are swapped and output displayed.

Q. LCM with prime factor method



Algorithm

Step1: Declare variables.

Step2: Take two numbers from user for LCM.

Step3: Initiate value 1 with 2.

Step4: Apply while loop with condition $num > 1$.

Step5: Check condition here if num is totally divisible with i and leaves remainder zero.

Step6: Now, increment with $i++$

Step7: Display the result