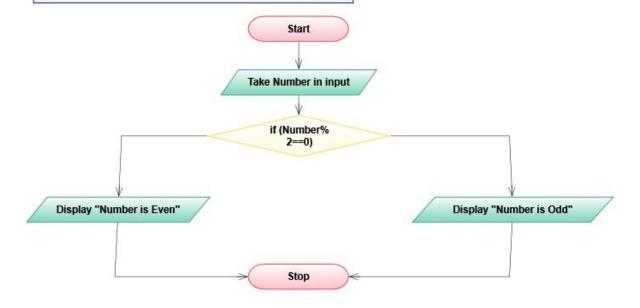
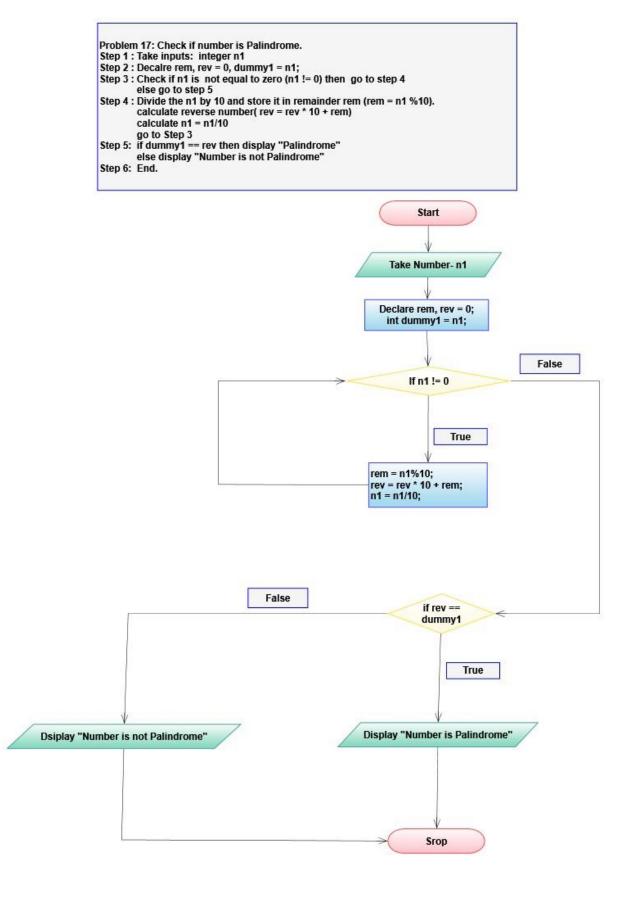
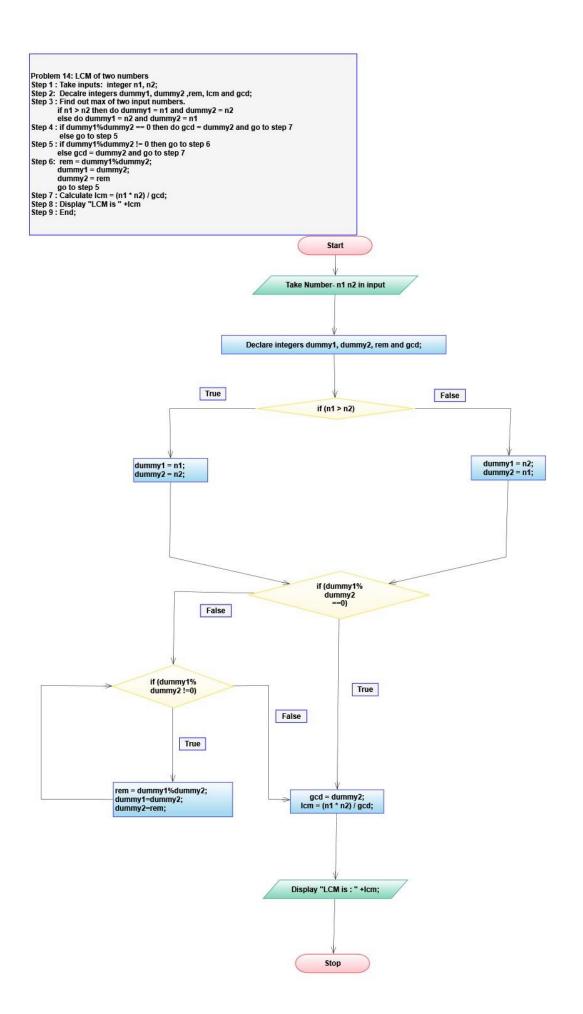
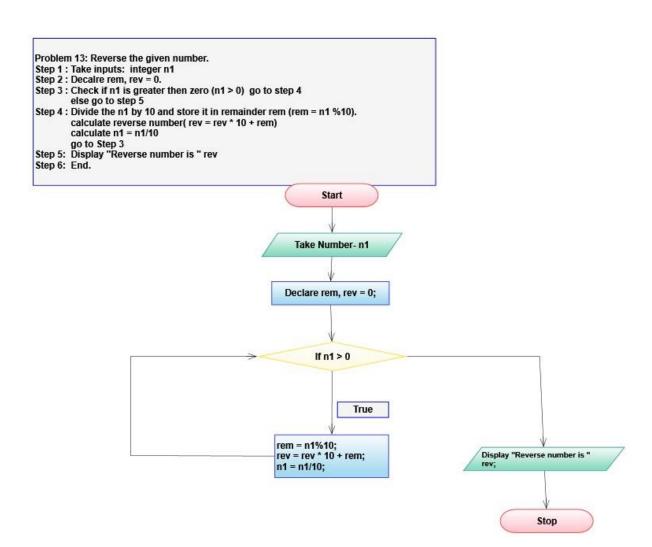
Step 1 : Take input number from user
Step 2 : Check if number is divisible by 2 with remainder as zero
Step 3 : if Step 2 is
1. True - Dipslay Even
2. False - Display Odd



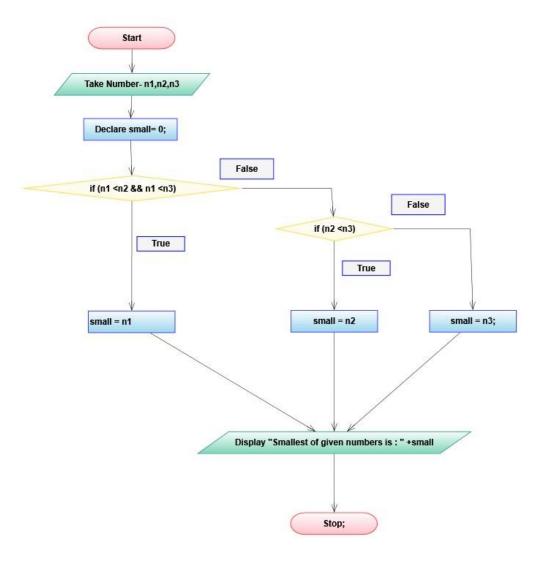




```
Problem 14: GCD of two numbers
Step 1: Take inputs: integer n1, n2;
Step 2: Decaire integers dummy1, dummy2, rem and gcd;
Step 3: Find out max of two input numbers.
if n1 > n2 then do dummy1 = n1 and dummy2 = n2
else do dummy1 = n2 and dummy2 = n1
Step 4: if dummy1%dummy2 == 0 then do gcd = dummy2 and go to step 7
else go to step 5
Step 5: if dummy1%dummy2!= 0 then go to step 6
else gcd = dummy2 and go to step 7
Step 6: rem = dummy1%dummy2;
dummy1 = dummy2;
dummy1 = dummy2;
dummy2 = rem
go to step 5
Step 7: Display "GCD is:" +gcd
Step 8: END.
                                                                                                                                                                                                      Start
                                                                                                                                                                           Take Number- n1 n2 in input
                                                                                                                                                Declare integers dummy1, dummy2, rem and gcd;
                                                                                                                 True
                                                                                                                                                                                                                                                                             False
                                                                                                                                                                                                if (n1 > n2)
                                                                      dummy1 = n1;
dummy2 = n2;
                                                                                                                                                                                                                                                                                                             dummy1 = n2;
dummy2 = n1;
                                                                                                                                                                                               if (dummy1%
dummy2
                                                                                                                                                                                                          ==0)
                                                                                                                  False
                                                                                 if (dummy1%
dummy2 !=0)
                                                                                                                                                                                                                       True
                                                                                                                                                                    False
                                                                                                     True
                                                         rem = dummy1%dummy2;
dummy1=dummy2;
dummy2=rem;
                                                                                                                                                                                           gcd = dummy2;
                                                                                                                                                                              Display "GCD is : " +gcd;
                                                                                                                                                                                                     Stop
```



Problem 11: Smallest of given 3 numbers
Step 1: Take inputs: integer n1, n2 and n3
Step 2: Declare integer small =0;
Step 3: if n1 < n2 and n1 < n3 then small = n1
else go to step 4
Step 4: if n2 < n3 then small = n2
else go to step 5
Step 5: small = n3;
Step 6: Display "Smmalest number is: " +small;
Step 7: End.



```
Problem 10: Sum of the digit of given nuber

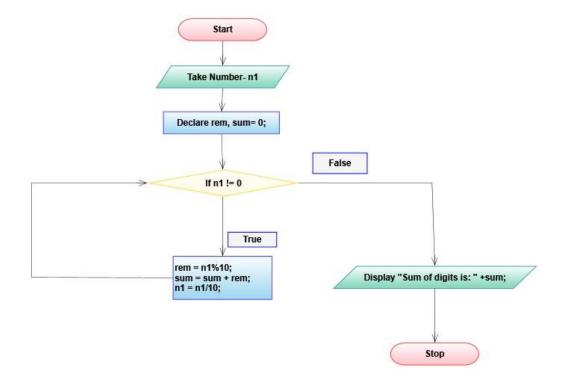
Step 1: Take inputs: integer n1

Step 2: Decaire rem=0,sum=0.

Step 3: Check if n1 is not zero (n1 != 0) go to step 4
else go to step 5

Step 4: Divide the n1 by 10 and store it in remainder rem (rem = n1 %10).
calculate sum = sum + rem
calculate n1 = n1/10
go to step 3

Step 5: Display "sum of digits is: " +sum;
Step 6: End.
```



```
Problem 9: Print Factors of given integer

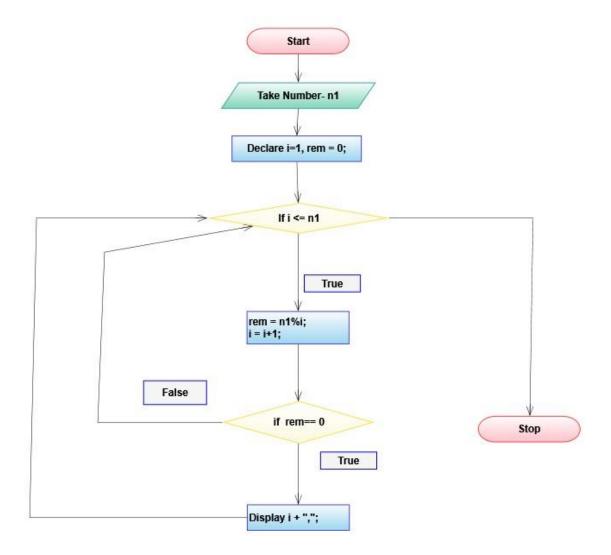
Step 1: Take inputs: integer n1

Step 2: Declare int i=1, rem=0;

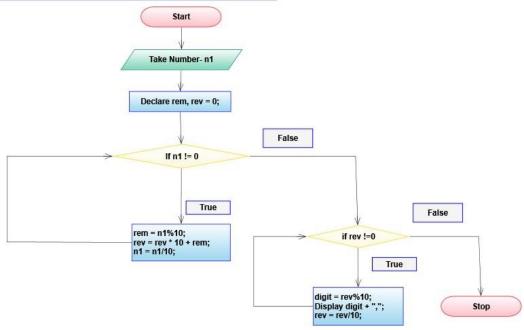
Step 3: Check if i <= n1 then go to step 4
else go to step 5

Step 4: Divide the n1 by i and store it in remainder rem (rem = n1 %i).
i = i+1;
if remainder is equal to zero (rem ==0) then print i (i+"");
go to step 3

Step 5: End.
```



```
Problem 8: Print the digit of given nuber
Step 1: Take inputs: integer n1
Step 2: Decalre rem, rev = 0, digit.
Step 3: Check if n1 is not zero (n1 != 0) go to step 4
else go to step 5
Step 4: Divide the n1 by 10 and store it in remainder rem (rem = n1 %10).
calculate reverse number( rev = rev * 10 + rem)
calculate n1 = n1/10
go to step 3
Step 5: if rev! = 0 is true then go to step 6
else go to step 7;
Step 6: digit = rev %10;
Display digit + ","
rev = rev/10;
go to step 5
Step 7: End.
```



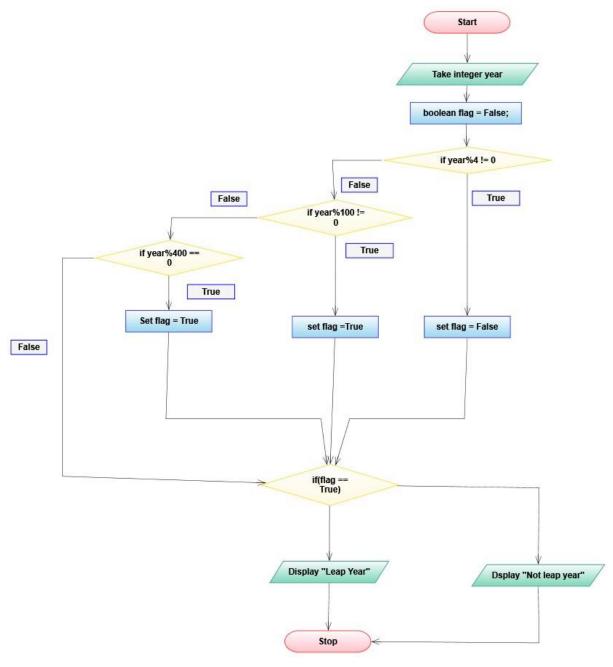
Problem 6 To check if given year is leap year or not.

Step 1: Take input year: integer year and declare boolean flag = false;
Step 2: If year is not divisible by 4 completly then Set flag to False else go to Step 3

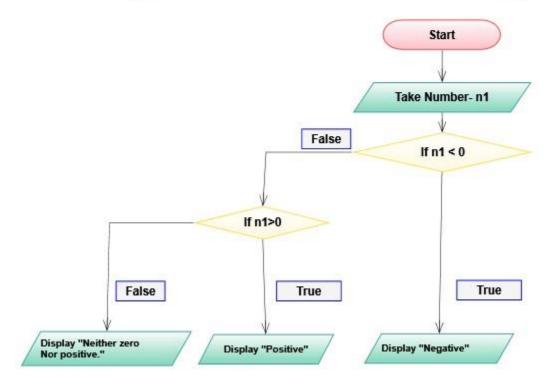
Step 3: If year is not divisible by 100 then set flag to True else go to step 4

Step 4: If year is divisible by 400 then set flag to True
Step 5: If (flag) display "Leap Year" else display "Not Leap"

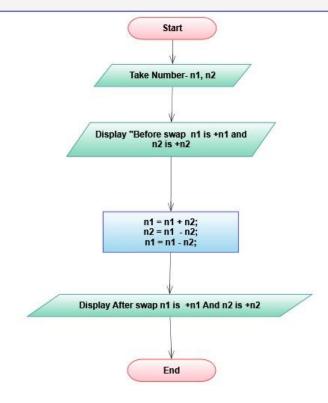
Step 6: End.



```
Step 1 : Take inputs: integer n1
Step 2: If n1 > 0 Display "Positive"
Step 2: If n1 < 0 Display "Negative"
Step 3: If n1 = 0 Display "Neither Positive nor Negative"
Step 7: End.
```



Step 1: Take 2 inputs: integer n1 And integer n2
Step 2: Display values before swap.
Step 3: Calculate n1= n1 + n2. So n1 will carry addition of two input numbers and n2 will have its original value.
Step 4: Calculate n2= n1 - n2. Here result will be original value of n1 and will be assigned to n2
Step 5: Calculate n1= n1 - n2. Here result will be original value of n2 and will be assigned to n1.
Step 6: Display values after swap.
Step 7: End.



```
Step 1 : Take input number n1 from user
Step 2 : declare and initialize integers- fact and i = 1
Step 3 : If i is less than or equal to n1 then do multiply fact with i and assign it to the factorial- fact
If i is greater than n1 go to Step 5
Step 4: Increase i by 1 and go to step 3
Step 5: Display the factorial fact.
Step 6: End.
```

