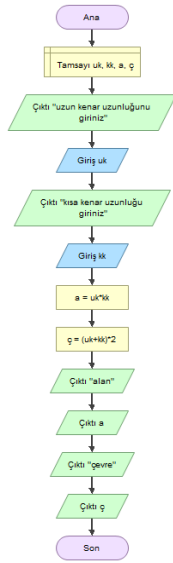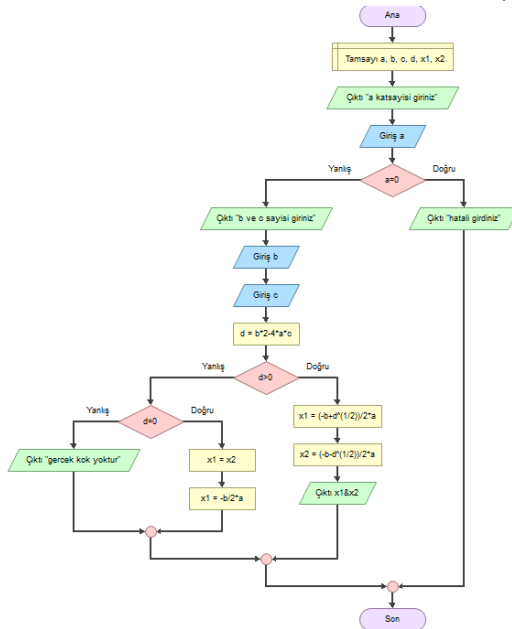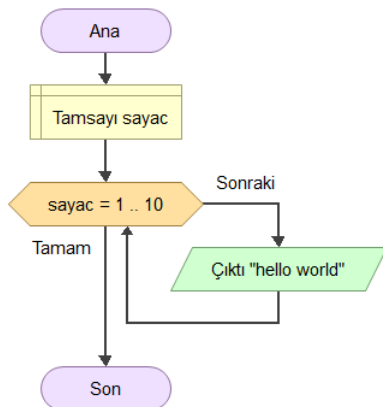1. Write an algorithm and draw a flowchart that will read the two sides of a rectangle and calculate its area and perimeter.
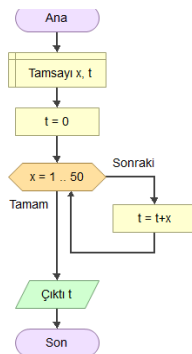

2. Draw a flowchart to find all the roots of a quadratic equation ax2+bx+c=0.
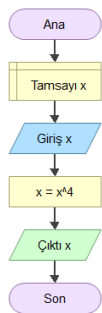

3. Print Hello World 10 times

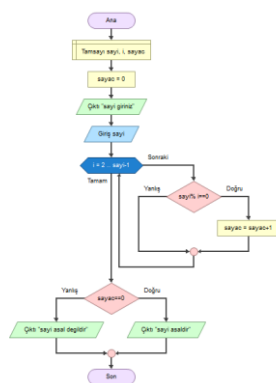4.a flowchart to find the sum of the first 50 natural numbers

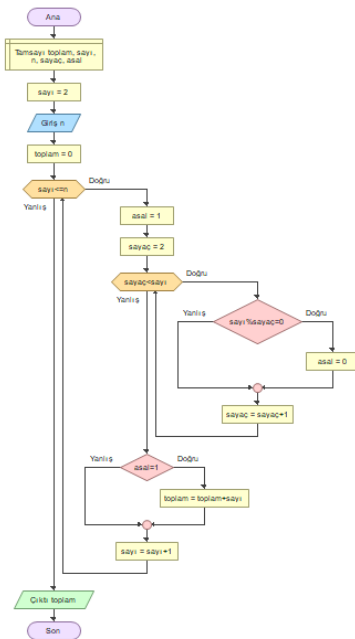5. Write an algorithm and draw a flowchart to calculate 24.

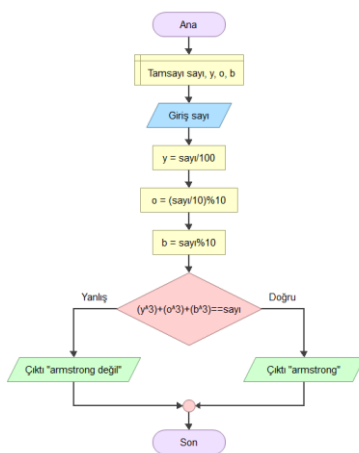6. Draw a flow chart to find LCM of two numbers.

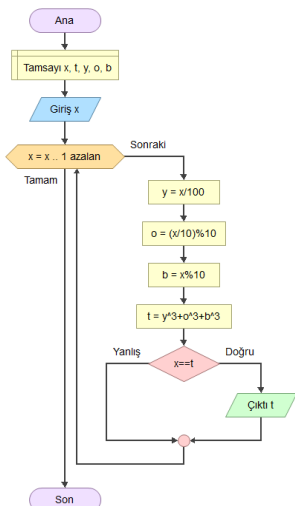7. Draw a flow chart to print all Prime numbers between 1 to n.

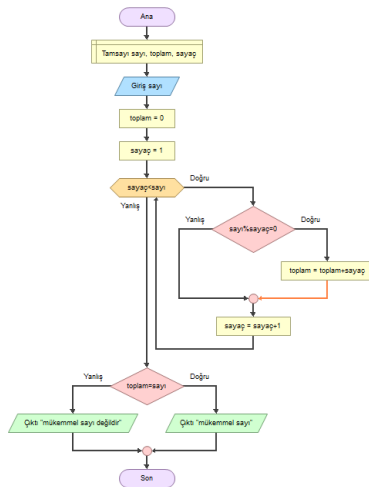## 8. Draw a flow chart to find sum of all prime numbers between 1 to n.

```
        ( Ana )
          │
  ┌───────────────────┐
  │ Tamsayı toplam, sayı, │
  │    n, sayaç, asal     │
  └───────────────────┘
          │
      [ sayı = 2 ]
          │
      / Giriş n /
          │
     [ toplam = 0 ]
          │
      < sayı<=n >──── Doğru
          │                 │
       Yanlış           [ asal = 1 ]
          │                 │
          │            [ sayaç = 2 ]
          │                 │
          │          < sayaç<sayı >──── Doğru
          │                 │               │
          │              Yanlış      Yanlış  < sayı%sayaç=0 >── Doğru
          │                 │               │                      │
          │                 │               │                 [ asal = 0 ]
          │                 │               └──────○───────────────┘
          │                 │          [ sayaç = sayaç+1 ]
          │                 │
          │       Yanlış  < asal=1 >── Doğru
          │                 │               │
          │                 │      [ toplam = toplam+sayı ]
          │                 └──────○─────────┘
          │            [ sayı = sayı+1 ]
          │
    / Çıktı toplam /
          │
        ( Son )
```

9. Draw a flow chart to check whether a number is Armstrong number or not.

```
            ( Ana )
              │
    ┌───────────────────┐
    │ Tamsayı sayı, y, o, b │
    └───────────────────┘
              │
        / Giriş sayı /
              │
        [ y = sayı/100 ]
              │
      [ o = (sayı/10)%10 ]
              │
        [ b = sayı%10 ]
              │
  Yanlış  < (y^3)+(o^3)+(b^3)==sayı >  Doğru
    │                                    │
/ Çıktı "armstrong değil" /    / Çıktı "armstrong" /
    │                                    │
    └──────────────○─────────────────────┘
                   │
                ( Son )
```

10. Draw a flow chart to print all Armstrong numbers between 1 to n.

```
          ( Ana )
            │
  ┌─────────────────┐
  │ Tamsayı x, t, y, o, b │
  └─────────────────┘
            │
        / Giriş x /
            │
   < x = x .. 1 azalan >──── Sonraki
            │                    │
         Tamam              [ y = x/100 ]
            │                    │
            │            [ o = (x/10)%10 ]
            │                    │
            │              [ b = x%10 ]
            │                    │
            │          [ t = y^3+o^3+b^3 ]
            │                    │
            │       Yanlış  < x==t >── Doğru
            │            │              │
            │            │         / Çıktı t /
            │            └─────○────────┘
            │                  │
            └──────────────────┘
            │
          ( Son )
```

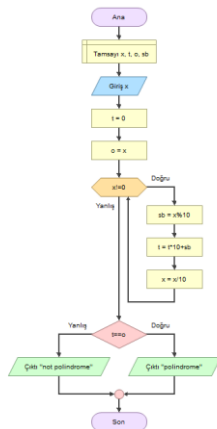11.Draw a flow chart to check whether a number is Perfect number or not.

12.Draw a flow chart to print all Perfect numbers between 1 to n.

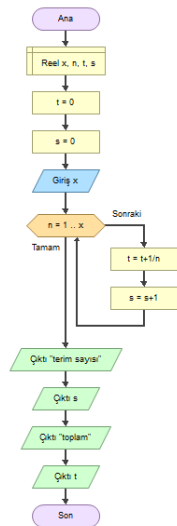13.Draw a flow chart to check whether a number is Strong number or not.

14.Draw a flow chart to print all Strong numbers between 1 to n.

15.Draw a flow chart to check Whether a Number is Palindrome or Not

16.Draw a flow chart to find the sum of the series [1-X^2/2!+X^4/4!- ....].

17.Draw a flow chart to display the n terms of harmonic series and their sum. (1 + 1/2 + 1/3 + 1/4 + 1/5 … 1/n terms)

18. Draw a flow chart to print the Floyd's Triangle.

1

01

101
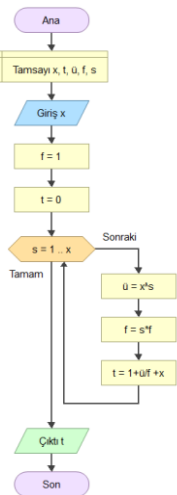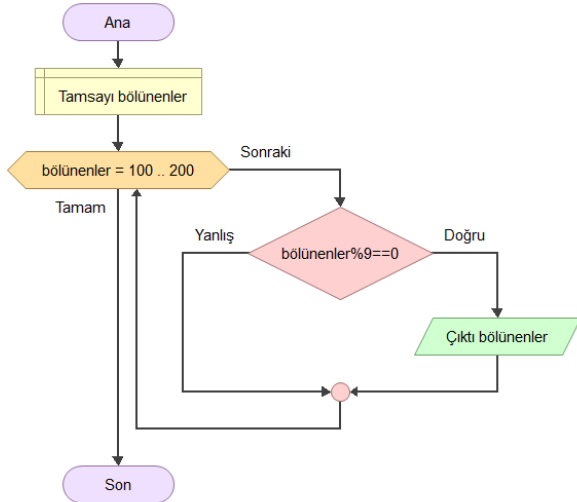
0101

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19. Draw a flow chart to display the sum of the series [1+x+x^2/2!+x^3/3!+....].
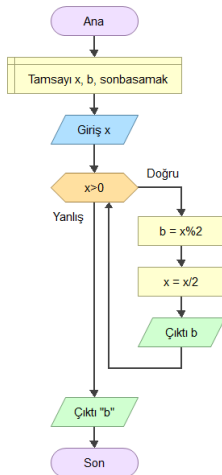

20. Draw a flow chart to find the sum of the series [x - x^3 + x^5 + ...].

21. Draw a flow chart to find the sum of the series 1 +11 + 111 + 1111 + .. n terms

22.Draw a flow chart to find the number and sum of all integer between 100 and 200 which are divisible by 9.

Ana
Tamsayı bölünenler
bölünenler = 100 .. 200   Sonraki
Tamam
Yanlış   bölünenler%9==0   Doğru
Çıktı bölünenler
Son

23.Draw a flow chart to convert a decimal number into binary without using an array.

Ana
Tamsayı x, b, sonbasamak
Giriş x
x>0   Doğru
Yanlış
b = x%2
x = x/2
Çıktı b
Çıktı "b"
Son

24.Draw a flow chart to convert a binary number into a decimal number without using array, function and while loop.

25.Draw a flow chart to print Pascal triangle upto n rows