## Homework

* Multiply 2 no. by taking input -

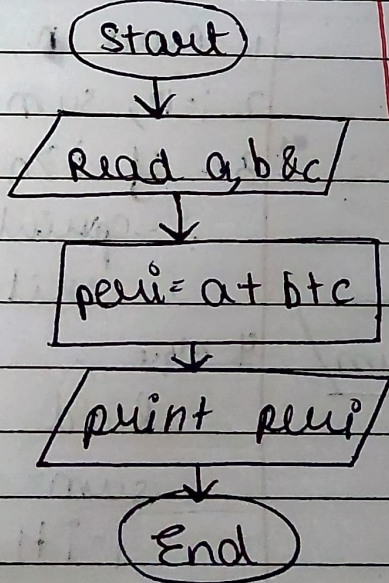| Flowchart - | Pseudo Code - |
|---|---|

Flowchart -

```
( Start )
    ↓
/ Read a & b /
    ↓
[ mul = a * b ]
    ↓
/ print mul /
    ↓
( End )
```
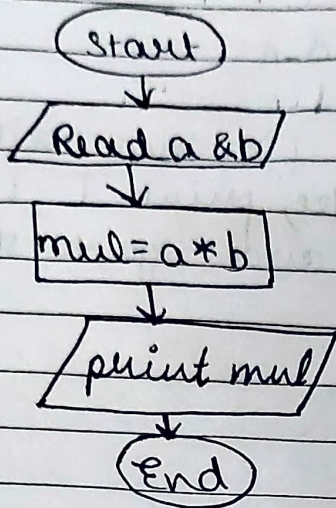
Pseudo Code -

1. Read a & b
2. mul = a * b
3. print mul

* Perimeter of a triangle -

Flowchart -

```
( Start )
    ↓
/ Read a, b & c /
    ↓
[ peri = a + b + c ]
    ↓
/ print peri /
    ↓
( End )
```

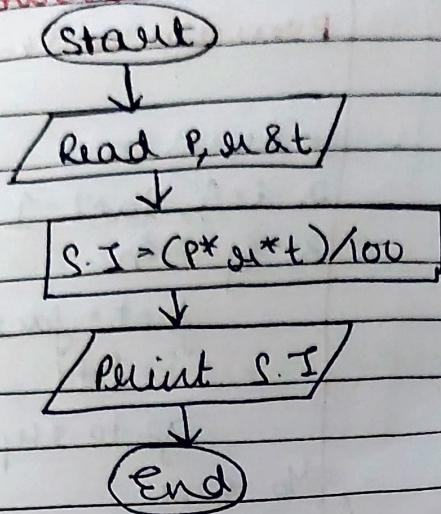Pseudo Code -

1. Read a, b & c
2. peri = a + b + c
3. print peri

## * Simple Interest - Flowchart -

```
        ( Start )
            |
            v
    / Read P, r & t /
            |
            v
  [ S.I = (P * r * t)/100 ]
            |
            v
    / Print S.I /
            |
            v
        ( End )
```

**Pseudo Code -**

1. Read P, r & t.
2. S.I. = (P * r * t)/100.
3. print S.I.

## * Print Counting from N to 1 - Flowchart -

```
        ( Start )
            |
            v
      / Read N /
            |
            v
        [ i = N ]
            |
            v
        < i < 1 > --Yes--> ( End )
            |
            | NO
            v
      / print i /
            |
            v
        [ i = i-1 ]
```
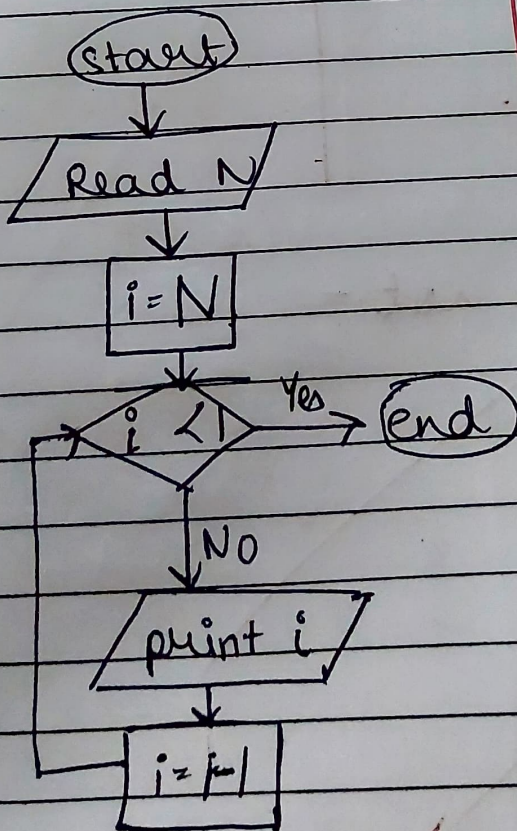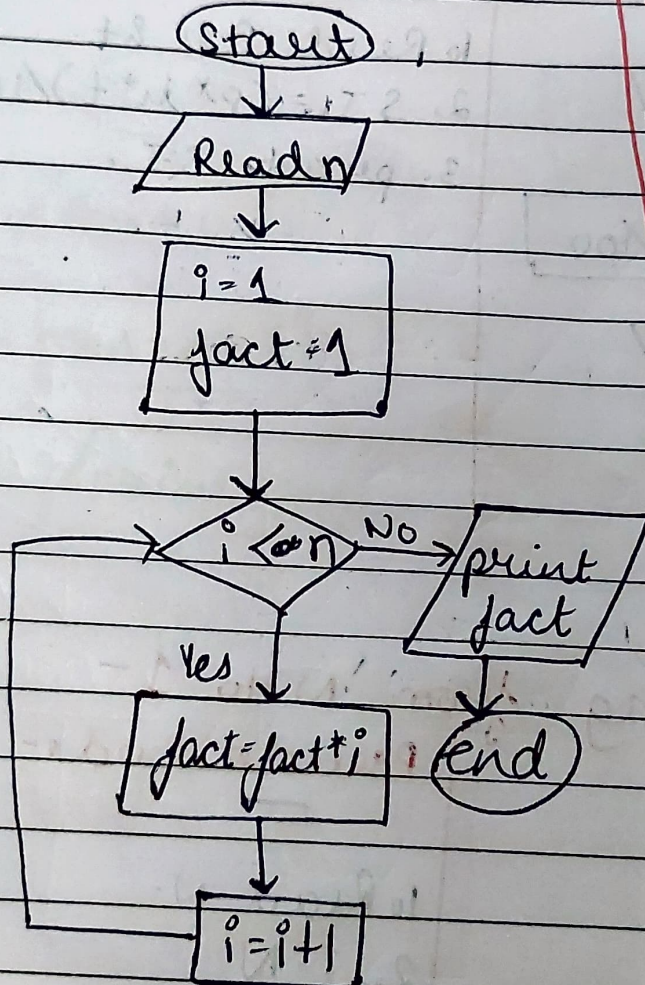
**Pseudo Code -**

1. Read N.
2. i = N.
3. if i < N.
            exit
4. Else.
        print i
        i = i-1
        go to step 3.

**\* Find factorial of a number-**

**Flowchart-**

```
        ( Start )
            |
            v
      / Read n /
            |
            v
      |  i = 1    |
      |  fact = 1 |
            |
            v
        < i < n > --NO--> / print \
            |             /  fact  /
          Yes                 |
            v                 v
    | fact = fact*i |     ( end )
            |
            v
      | i = i+1 |
```
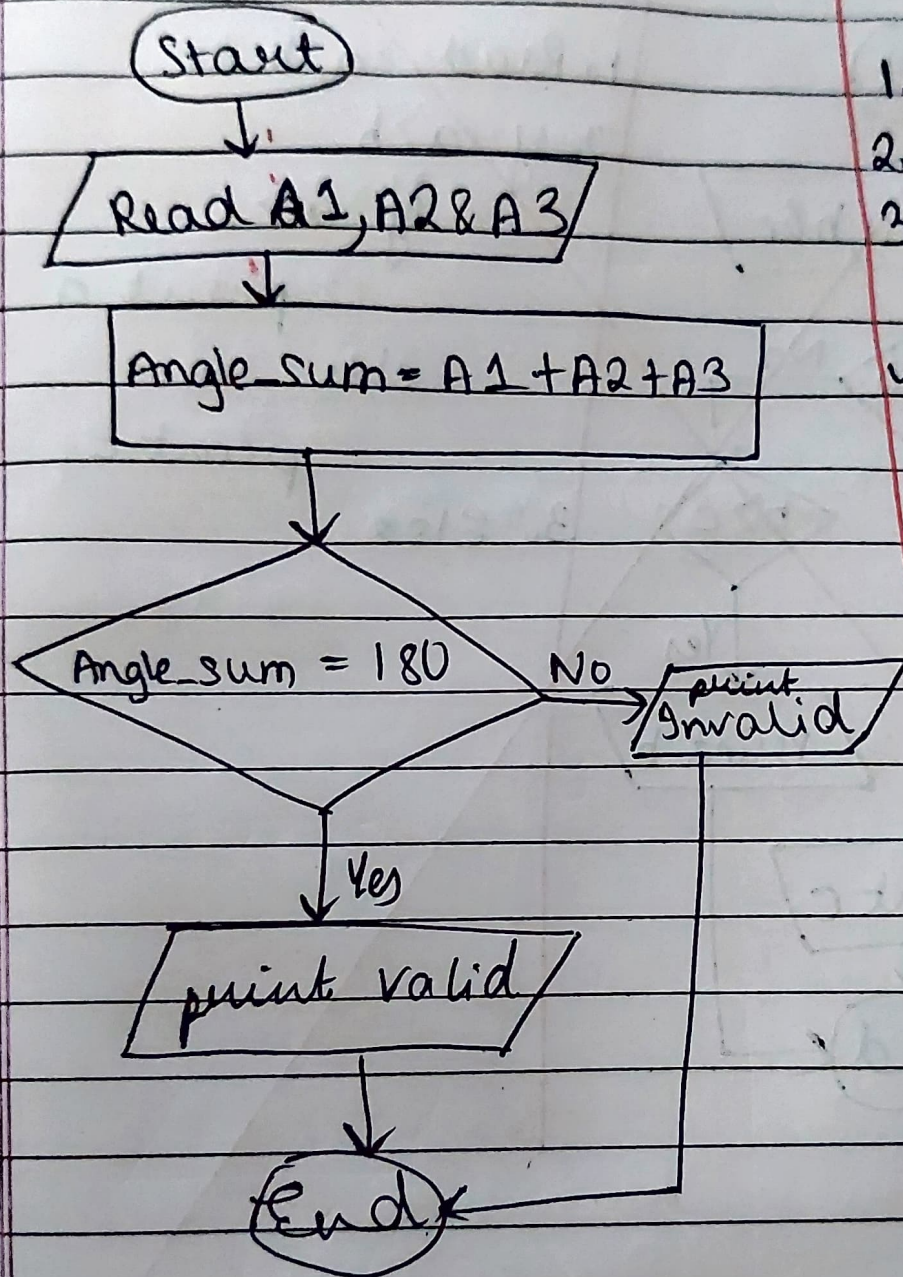
**Pseudo code-**

1. Read n
2. $i = 1$, fact $= 1$
3. If $i \le n$

   fact $=$ fact $* i$
   $i = i + 1$
   go to step 3.

4. Else

   print fact
   exit

# * Valid triangle or not -

## Flowchart -

```
        ( Start )
            |
            v
   / Read A1, A2 & A3 /
            |
            v
  | Angle_sum = A1 + A2 + A3 |
            |
            v
       < Angle_sum = 180 >  --No-->  / print Invalid /
            |                              |
           Yes                             |
            |                              |
            v                              |
    / print valid /                        |
            |                              |
            v                              |
        ( End ) <--------------------------
```
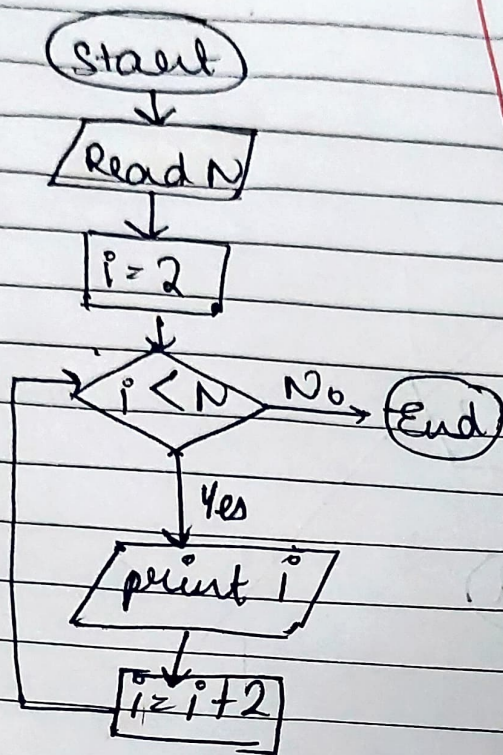
## Pseudo code -

1. Read A1, A2 & A3.
2. Angle_sum = A1 + A2 + A3.
3. If Angle_sum = 180.
       print valid.
4. Else
       print Invalid
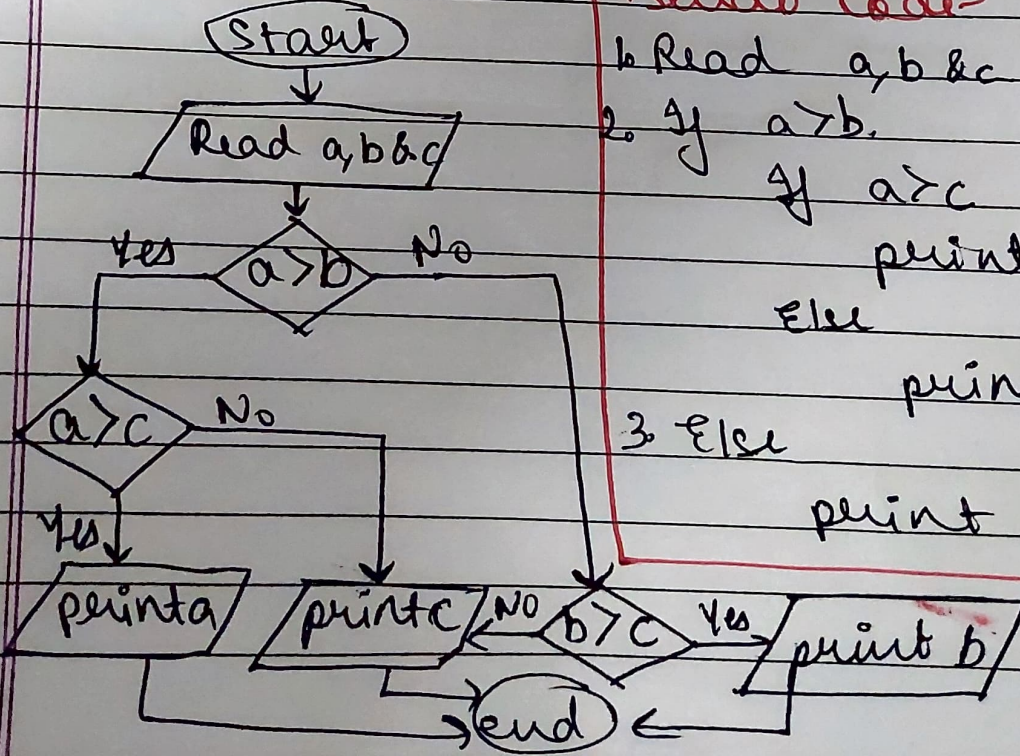
# * Print 1 to N only even numbers →

## Flowchart —

```
   ( Start )
      │
      ▼
  / Read N /
      │
      ▼
  [ i = 2 ]
      │
      ▼
   < i < N > ──No──→ ( End )
      │
     Yes
      │
      ▼
  / print i /
      │
      ▼
  [ i = i + 2 ]
      │
      └──────┐ (loop back to i < N)
```

## Pseudo Code —

1. Read N
2. i = 2
3. If i < N
   
   print i
   
   i = i + 2
   
   go to step 3
4. Else
   
   exit

---

# * Max of three Numbers.

## Flowchart —

```
        ( Start )
           │
           ▼
     / Read a, b & c /
           │
           ▼
  Yes ──< a > b >── No
   │               │
   ▼               ▼
< a > c > No    
   │   │
  Yes  ▼
   ▼
/ print a /  / print c / ←No── < b > c > ──Yes──→ / print b /
           │                  │
           └──────────────────┴──→ ( end ) ←
```

## Pseudo Code —

1. Read a, b & c
2. If a > b.
   
   If a > c
   
   print a
   
   Else
   
   print c
3. Else
   
   print b.