Experiment 5

Q Flowchart for adding two numbers

```
        ┌──────────┐
        (  Start   )
        └────┬─────┘
             ↓
        ╱─────────────╲
       ╱  Input first  ╲
       ╲   Number      ╱
        ╲─────────────╱
             ↓
        ╱─────────────╲
       ╱  Input second ╲
       ╲   number      ╱
        ╲─────────────╱
             ↓
        ┌──────────┐
        │  Num1 +  │
        │  Num 2   │
        └────┬─────┘
             ↓
        ┌──────────┐
        (   End    )
        └──────────┘
```
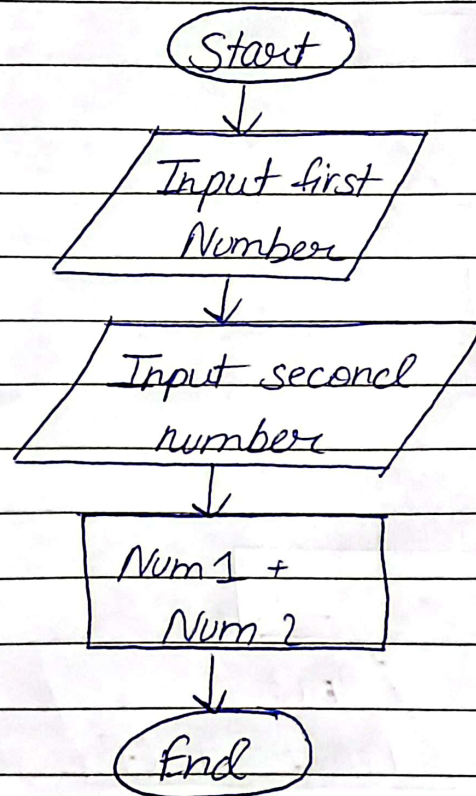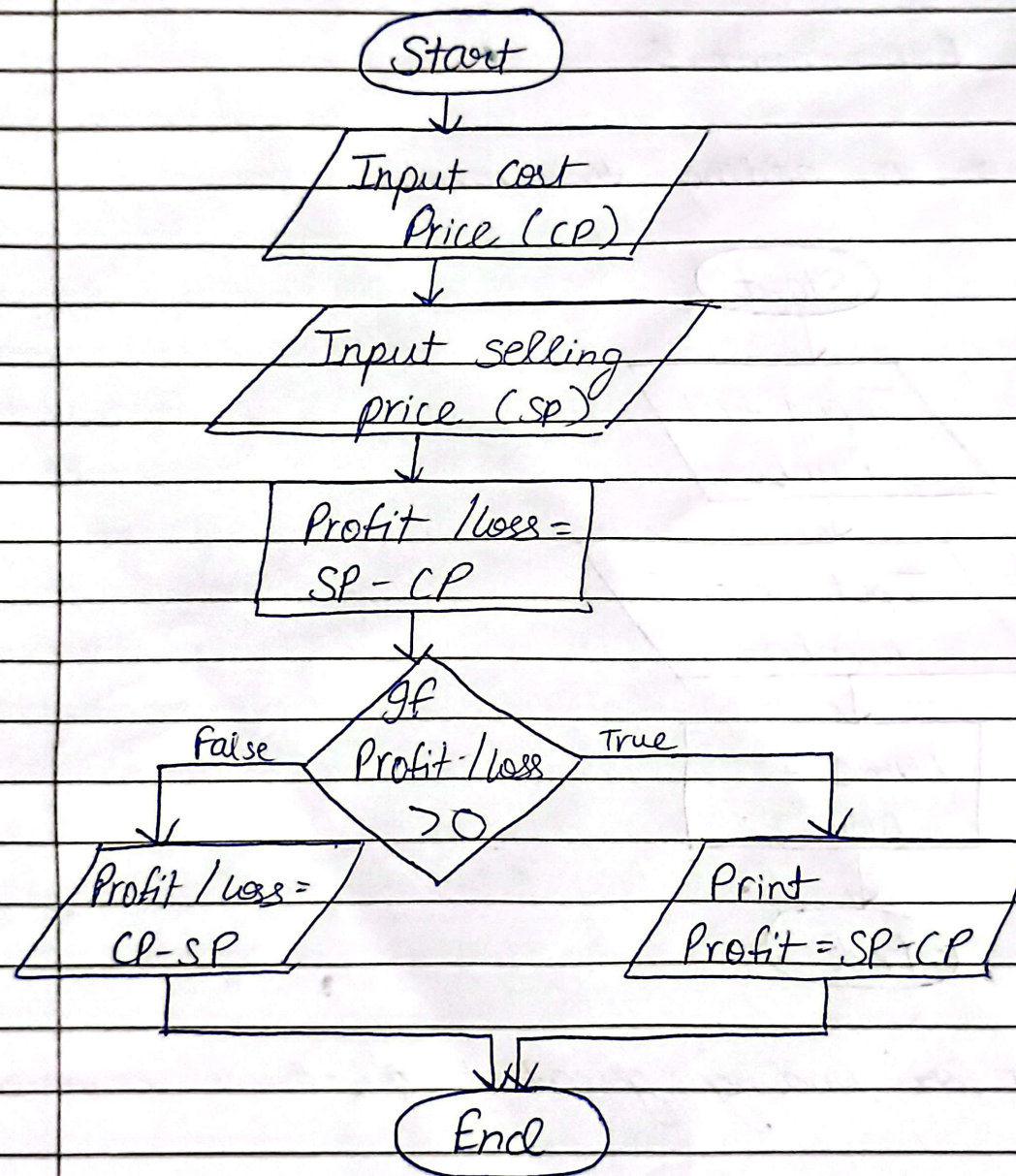
Q Flowchart for finding greatest of three entered number

```
                    ( Start )
                        |
                        v
               / Input cost      /
              /  Price (CP)     /
                        |
                        v
              / Input selling  /
             /  price (SP)    /
                        |
                        v
             | Profit/loss =  |
             |  SP - CP       |
                        |
                        v
                      / If
           False   / Profit/loss \   True
          <--------  \   > 0    / -------->
          |            \      /            |
          v                                v
   / Profit/loss =  /              / Print           /
  /  CP - SP       /              / Profit = SP-CP  /
          |                                |
          +-------------> End <------------+
```

3   Design a flowchart for calculating the profit & loss

```
                    ( Start )
                        |
                        v
              +-------------------+
              |   Input Cost      |
              |   Price (CP)      |
              +-------------------+
                        |
                        v
              /-------------------/
             /  Input Selling    /
            /   Price (SP)      /
           /-------------------/
                        |
                        v
              +-------------------+
              |  Profit /Loss =   |
              |   SP - CP         |
              +-------------------+
                        |
                        v
                     /     \
                    /  If   \
         false     / Profit/Loss \   True
        <---------<     > 0        >--------->
        |           \           /           |
        v            \         /            v
 /---------------/     \     /     +-------------------+
/ Print loss =  /                  |     Print         |
/  CP - SP      /                  |  Profit = SP - CP |
/--------------/                   +-------------------+
        |                                   |
        +----------------+------------------+
                         |
                         v
                      ( End )
```
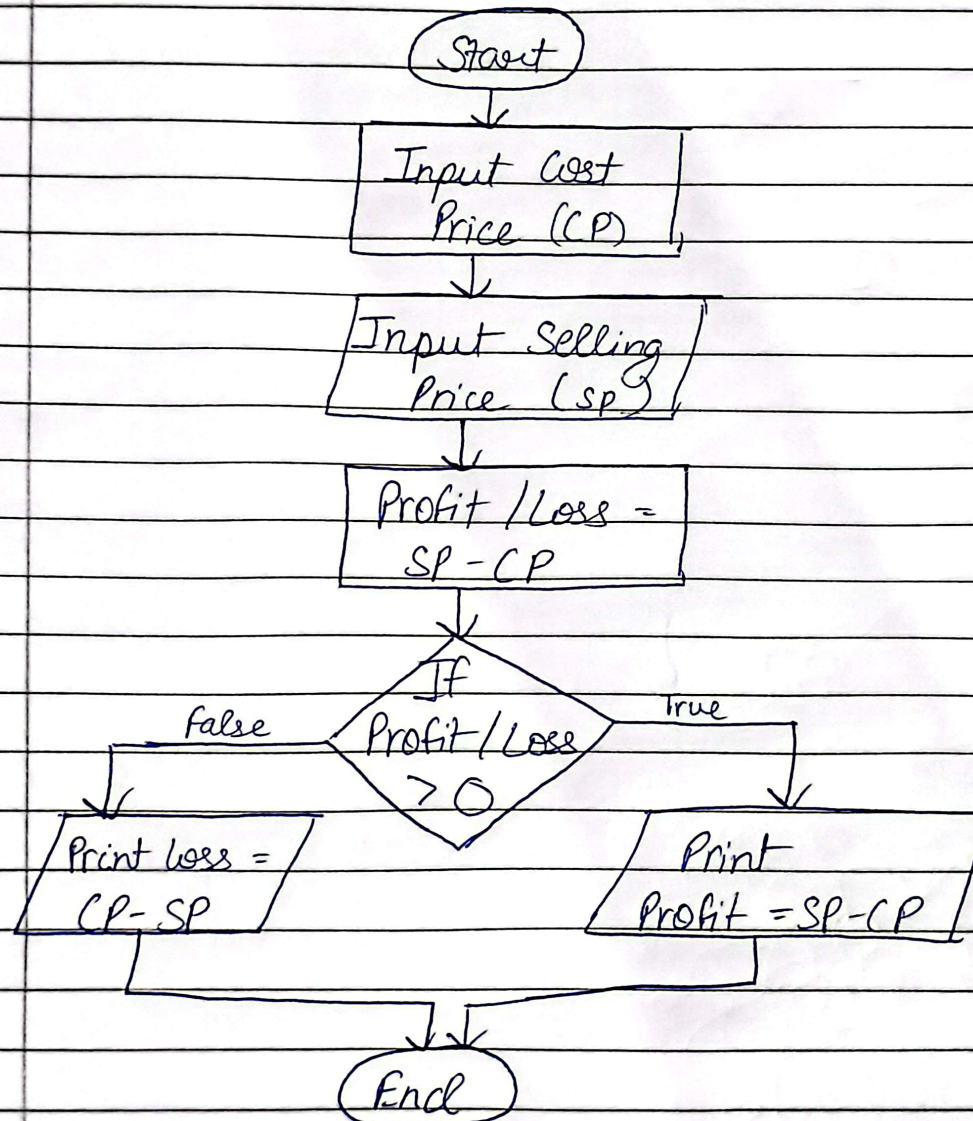
4 | Design a flowchart to calculate the average of two numbers

Start

Input A

Input B

Sum = A + B

Average = $\dfrac{Sum}{2}$

Print Average

End
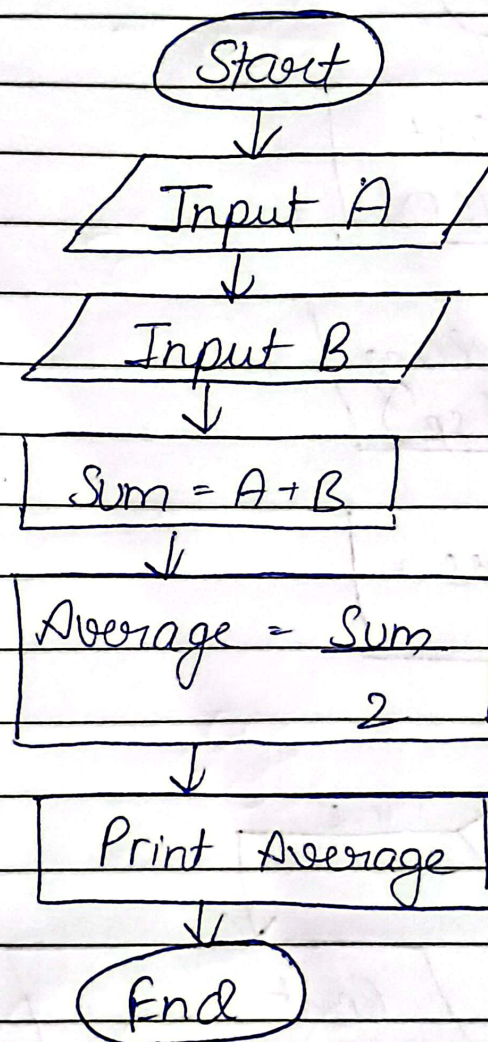
5 Design a flowchart for the multiplication of the three no. entered by the

```
        ( Start )
           |
           v
     / Input num 1 /
           |
           v
     / Input num 2 /
           |
           v
     / Input num 3 /
           |
           v
  | Product = num 1 × |
  | num 2 × num 3     |
           |
           v
  | Print Product |
           |
           v
        ( End )
```
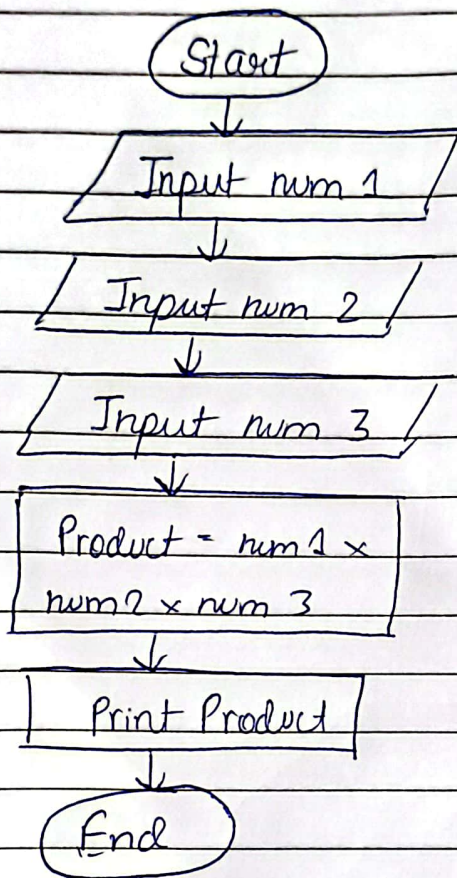
6 Design a flowchart for calculating the area of rectangle

```
        ( Start )
           |
           v
    / Input length /
           |
           v
    / Input width /
           |
           v
  | Area = length × width |
           |
           v
  | Print Area |
           |
           v
       ( End )
```
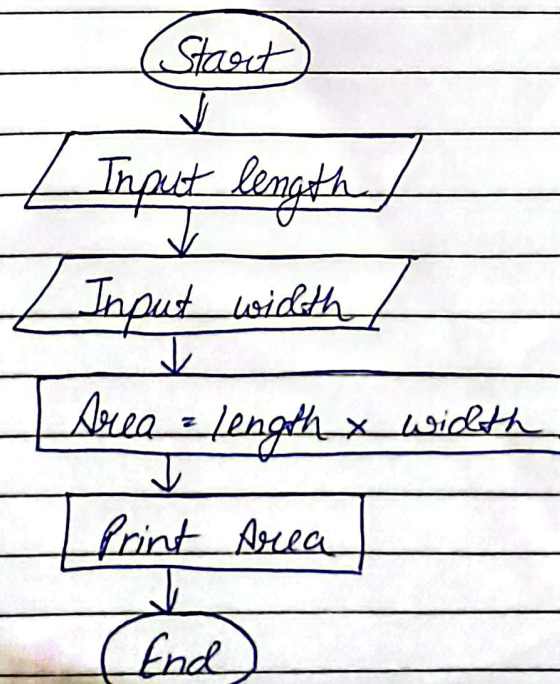
7 Design a flowchart for calculating simple interest according to the value of principal amount, ROI & time the user enters

Start

Input PA

Input ROI

Input T

$$SI = PA \times ROI \times T / 100$$

Print SI

End
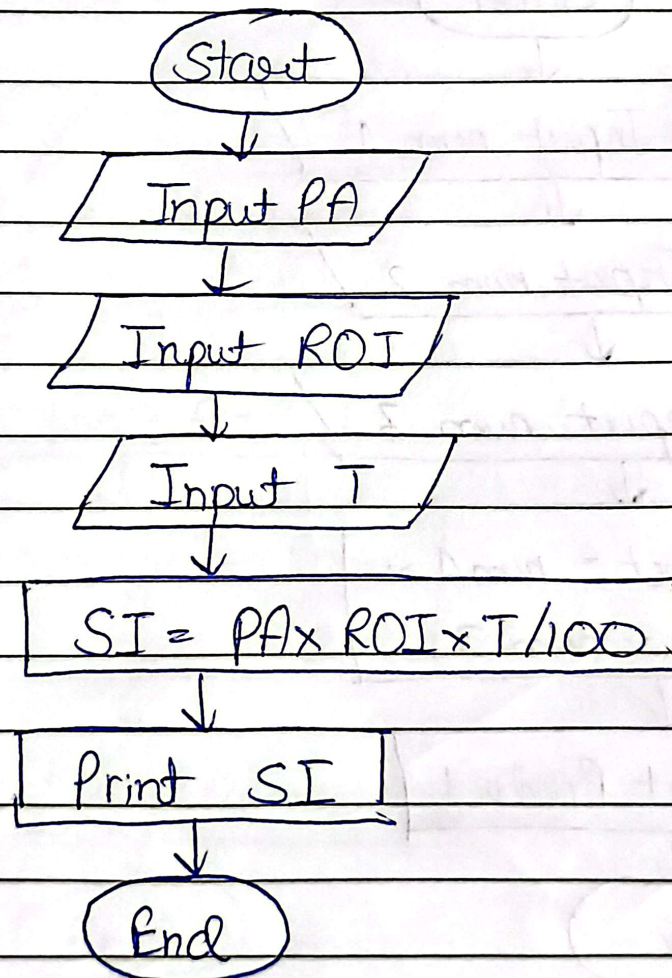
8. Design a flowchart for checking whether the number is positive of negetive acc to the number entered by the user

```
      ( Start )
          |
          v
  / Input Integer /
          |
```