* Assignment No: ① *

* Flowchorts :-
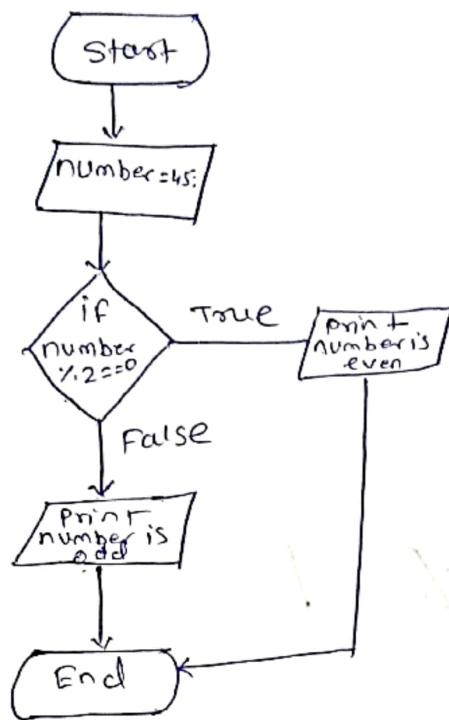
① check positive Numbers :
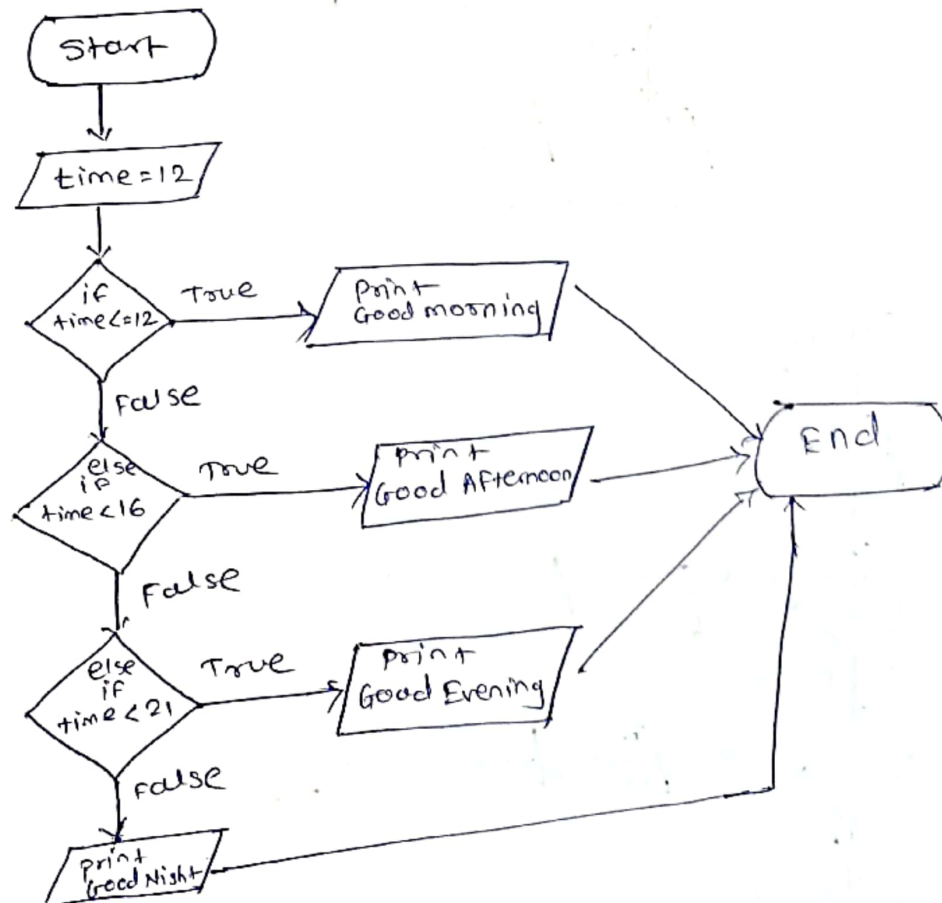
```
        ┌──────────┐
        │  Start   │
        └────┬─────┘
             │
             ▼
        ╱─────────────╲
        │ number = 30 │
        ╲─────────────╱
             │
             ▼
          ╱──────╲        Yes    ╱──────────────╲
         ╱  is     ╲──────────▶ ╱ Print Number is ╲
         ╲ number>0 ╱           ╲   Positive      ╱
          ╲──────╱                                  │
             │ No                                   │
             ▼                                       │
          ╱──────╲        Yes   ╱──────────────╲    │    ┌──────────┐
         ╱  is     ╲──────────▶╱ Print Number is ╲   │   │   End    │
         ╲ number   ╱          ╲  Negative       ╱──────▶└──────────┘
         ╲  < 0    ╱                                     ▲
          ╲──────╱                                       │
             │ NO                                        │
             ▼                                           │
        ╱──────────────╲                                 │
       ╱ Print Number is ╲────────────────────────────────┘
       ╲     zero        ╱
        ╲──────────────╱
```

② check Negative Number : -

```
        ┌──────────┐
        │  Start   │
        └────┬─────┘
             │
             ▼
        ╱──────────────╲
        │ number = -30 │
        ╲──────────────╱
             │
             ▼
          ╱──────╲       True   ╱──────────────╲
         ╱  if     ╲──────────▶ ╱ Print Number is ╲
         ╲ number> ╱            ╲   Positive      ╱──────┐
         ╲   0    ╱                                       │
          ╲──────╱                                        │
             │ False                                      ▼     ┌──────────┐
             ▼                                                  │   End    │
          ╱──────╲       True   ╱──────────────╲               └──────────┘
         ╱  if     ╲──────────▶ ╱ Print number is ╲──────────────▶ ▲
         ╲ number< ╱            ╲  negative       ╱                 │
         ╲   0    ╱                                                 │
          ╲──────╱                                                  │
             │ False                                                │
             ▼                                                      │
        ╱──────────────╲                                            │
       ╱ Print number is ╲────────────────────────────────────────┘
       ╲     zero        ╱
        ╲──────────────╱
```
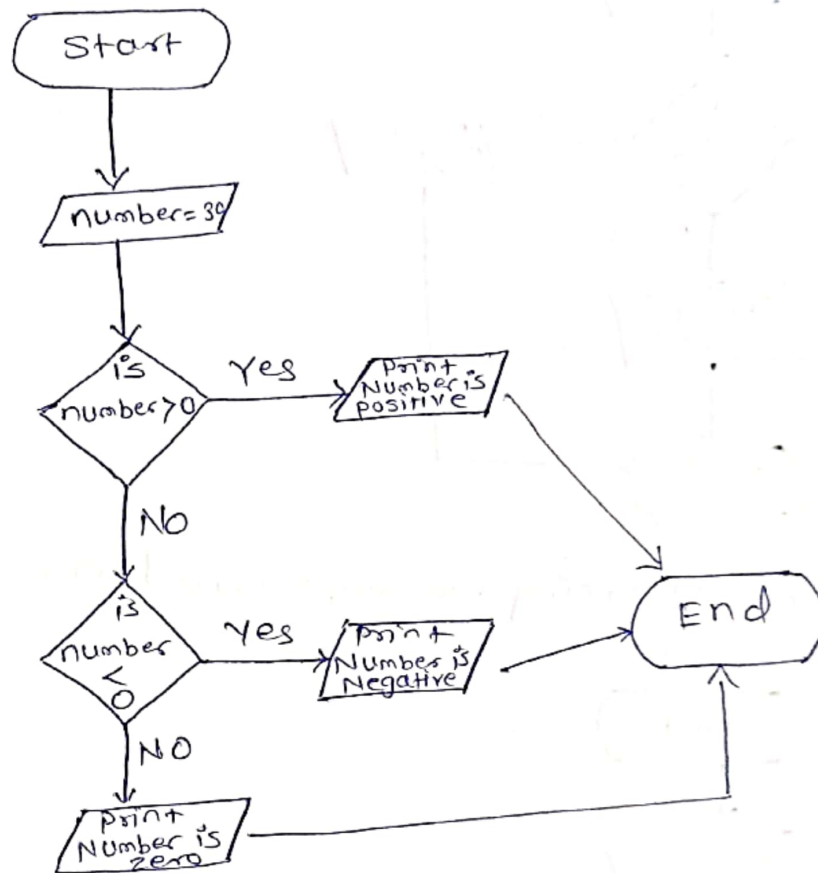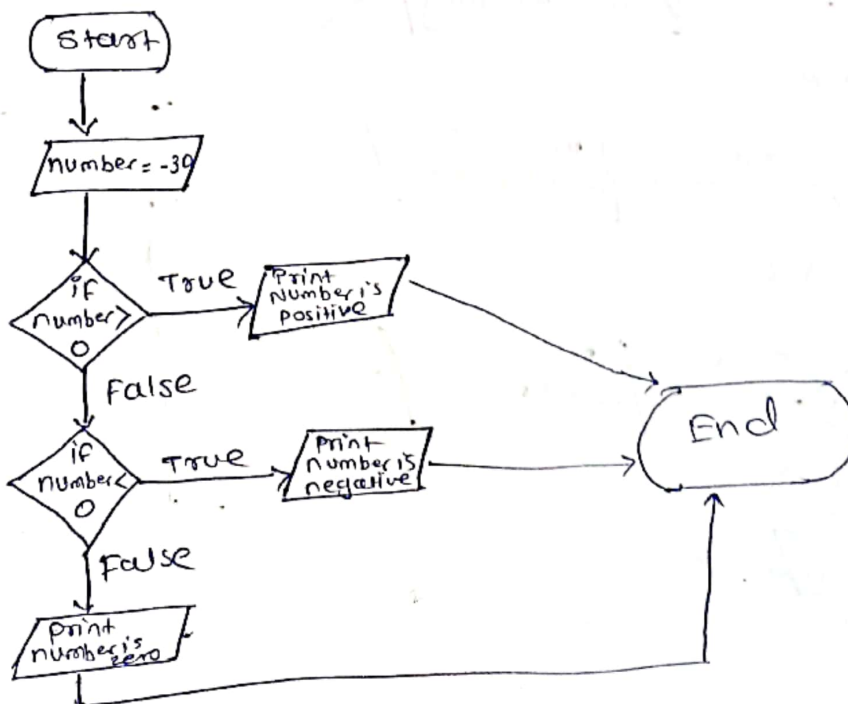
③ check odd or Even Number:

```
        ┌──────────┐
        │  Start   │
        └────┬─────┘
             │
             ▼
      ┌─────────────┐
      │ number = 45 │
      └──────┬──────┘
             │
             ▼
         ╱────────╲         True     ┌──────────────┐
        ╱   if     ╲────────────────▶│   print      │
        ╲ number    ╱                │  number is   │
         ╲ %2==0   ╱                 │    even      │
          ╲──┬───╱                   └──────┬───────┘
             │ False                        │
             ▼                              │
      ┌─────────────┐                       │
      │   Print     │                       │
      │ number is   │                       │
      │   odd       │                       │
      └──────┬──────┘                       │
             │                              │
             ▼                              │
        ┌──────────┐◀────────────────────────
        │   End    │
        └──────────┘
```

④ Display Good morning message Based on Time

```
        ┌──────────┐
        │  Start   │
        └────┬─────┘
             │
             ▼
      ┌─────────────┐
      │  time = 12  │
      └──────┬──────┘
             │
             ▼
         ╱────────╲      True      ┌──────────────┐
        ╱   if     ╲──────────────▶│   Print      │
        ╲ time<=12  ╱              │ Good morning │───┐
         ╲────┬───╱                └──────────────┘   │
             │ False                                  │
             ▼                                         │
         ╱────────╲      True      ┌──────────────┐   │
        ╱  else    ╲─────────────▶│   Print      │    ├──▶┌────────┐
        ╲   if      ╱             │ Good Afternoon│───┤   │  End   │
        ╲ time<16  ╱              └──────────────┘    │   └────────┘
         ╲────┬───╱                                    │
             │ False                                   │
             ▼                                          │
         ╱────────╲      True      ┌──────────────┐    │
        ╱  else    ╲─────────────▶│   Print      │     │
        ╲   if      ╱             │ Good Evening │─────┤
        ╲ time<21  ╱              └──────────────┘     │
         ╲────┬───╱                                     │
             │ False                                     │
             ▼                                            │
      ┌─────────────┐                                    │
      │   Print     │────────────────────────────────────
      │ Good Night  │
      └─────────────┘
```

⑤ Print Area of a square

Start

side = 3

Print
Enter the
number is

area = side *
side

area of
square

End

⑥ Print Area of Rectangle.

Start

length = 3
width = 4

area = length
* width

print area of
Rectangle is.

End
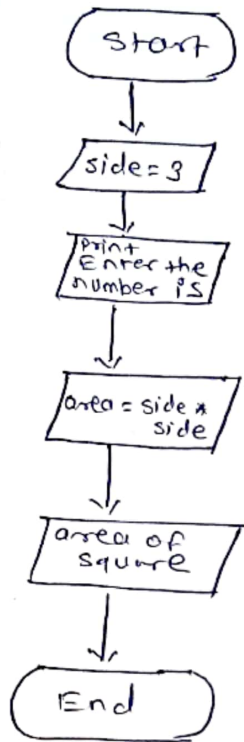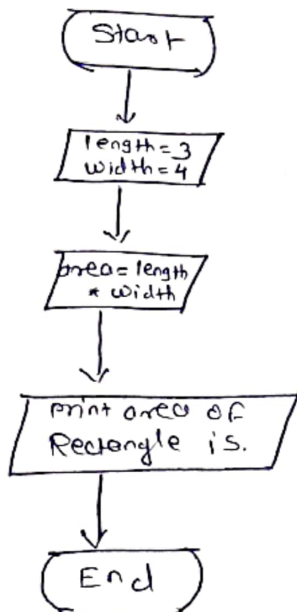
⑦ Largest of three Numbers.

Start

num1 = 10
num2 = 20
num3 = 7

if
num1 >= num2
&&
num1 >= num3 → True → print
Largest
num1

False

else
if
num2 >= num1
&&
num2 > num3 → True → print
Largest
num2

False

print
Largest num3

End