# Flow charts

Grade 07

Unit 05

What is algorithm?

Process or set of rules to be followed in calculation or other problem solving operations in the computer.

Algorithm

Pseudo codes Flow chart
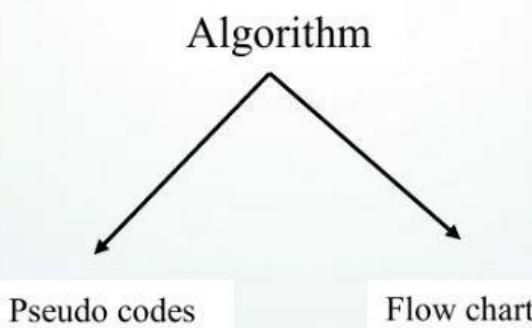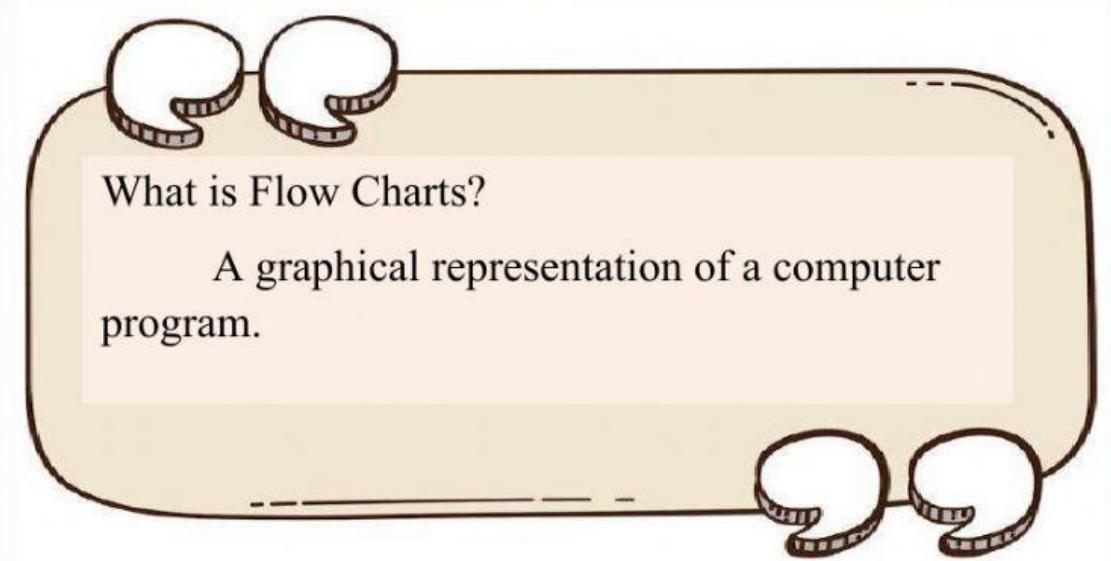
What is Flow Charts?

A graphical representation of a computer program.

Flow charts

Sequence type

Selection type

Repetition type
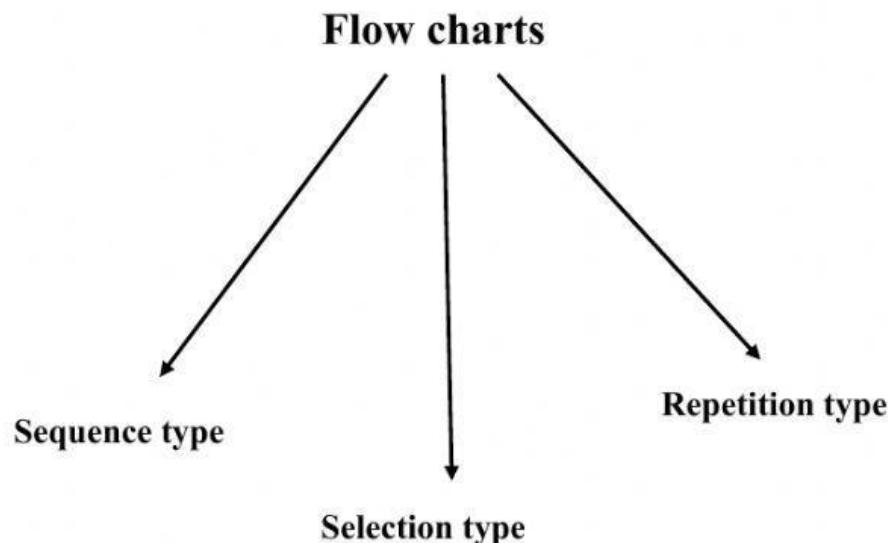
If the steps are carried out one after the other from the beginning to the end in a particular consecutive order, it is called a **Sequence.**


Selection decides which steps are executed depending on whether a condition of an algorithm is satisfied or not is called **selection.**

Sequence Type
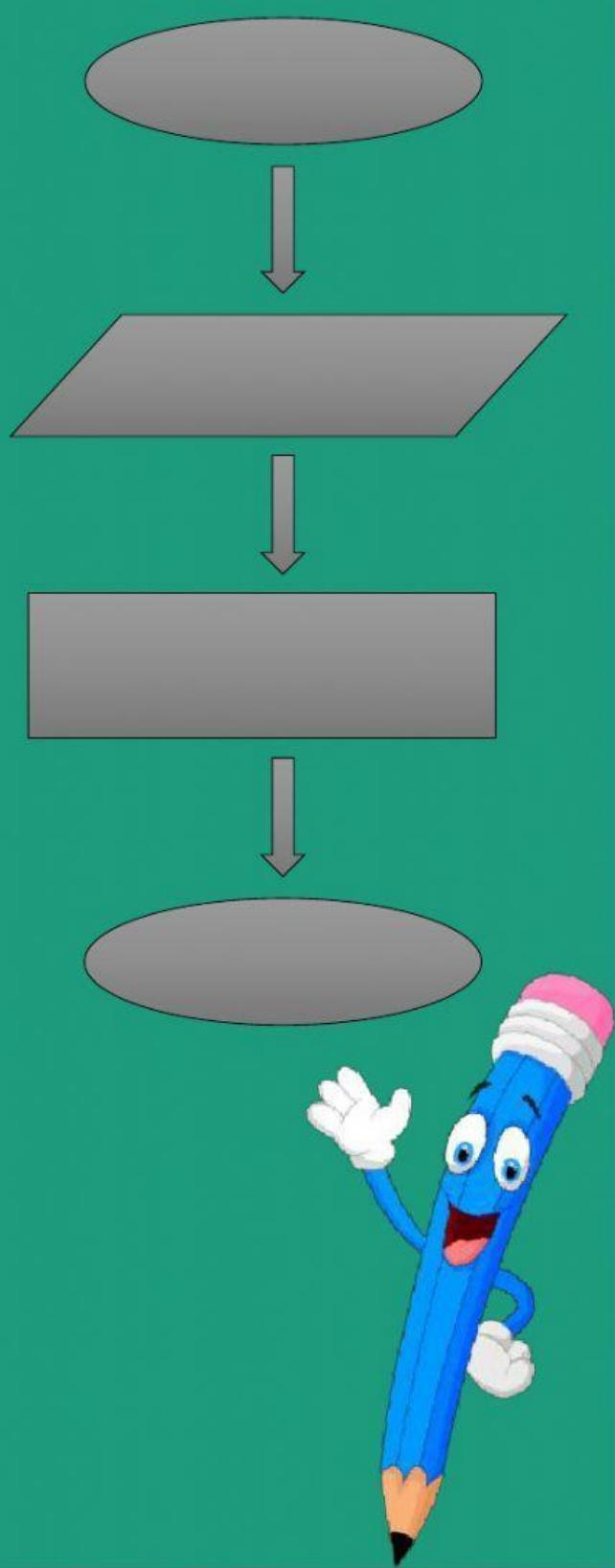
Selection Type
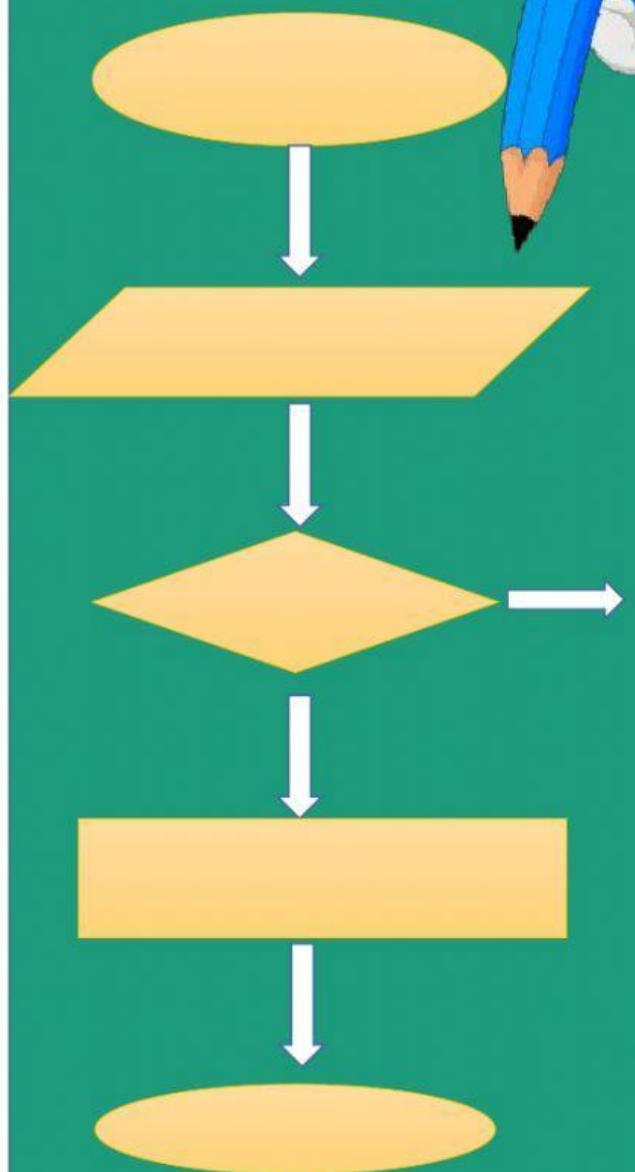
Let's calculate the price of five pencils

```
        ┌─────────────────┐
        │      Start      │
        └─────────────────┘
                 │
                 ▼
        ┌─────────────────┐
        │  Input the price │
        │   of the pencil  │
        └─────────────────┘
                 │
                 ▼
        ┌──────────────────────────┐
        │ Total = price of a pen × 5│
        └──────────────────────────┘
                 │
                 ▼
        ┌─────────────────┐
        │       End       │
        └─────────────────┘
```
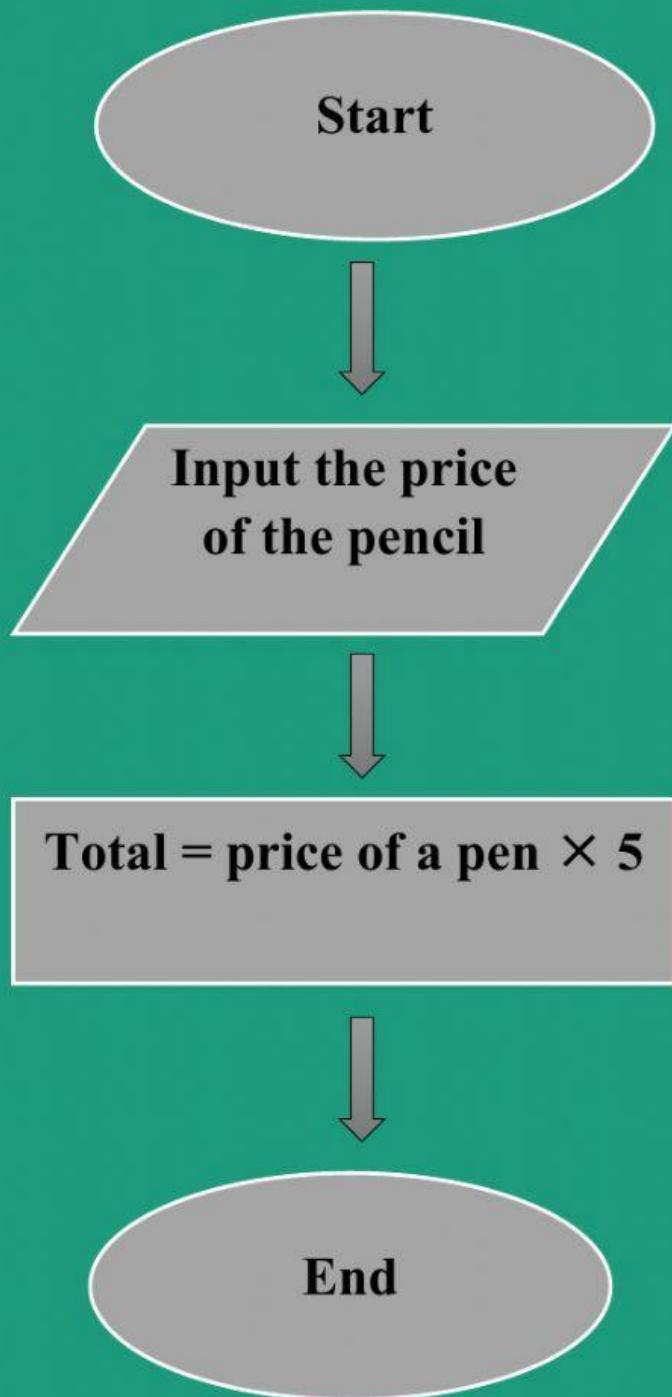
Let's see how old are you?
Are you a child?
Are you an adult?

```
        start
          │
          ▼
    How old are you ?
          │
          ▼
    Is Age < 18 ───YES──→ Display you are Child
          │                        │
          ▼                        No
    Display you are                │
    Adult                          │
          │                        │
          ▼◄───────────────────────┘
         End
```
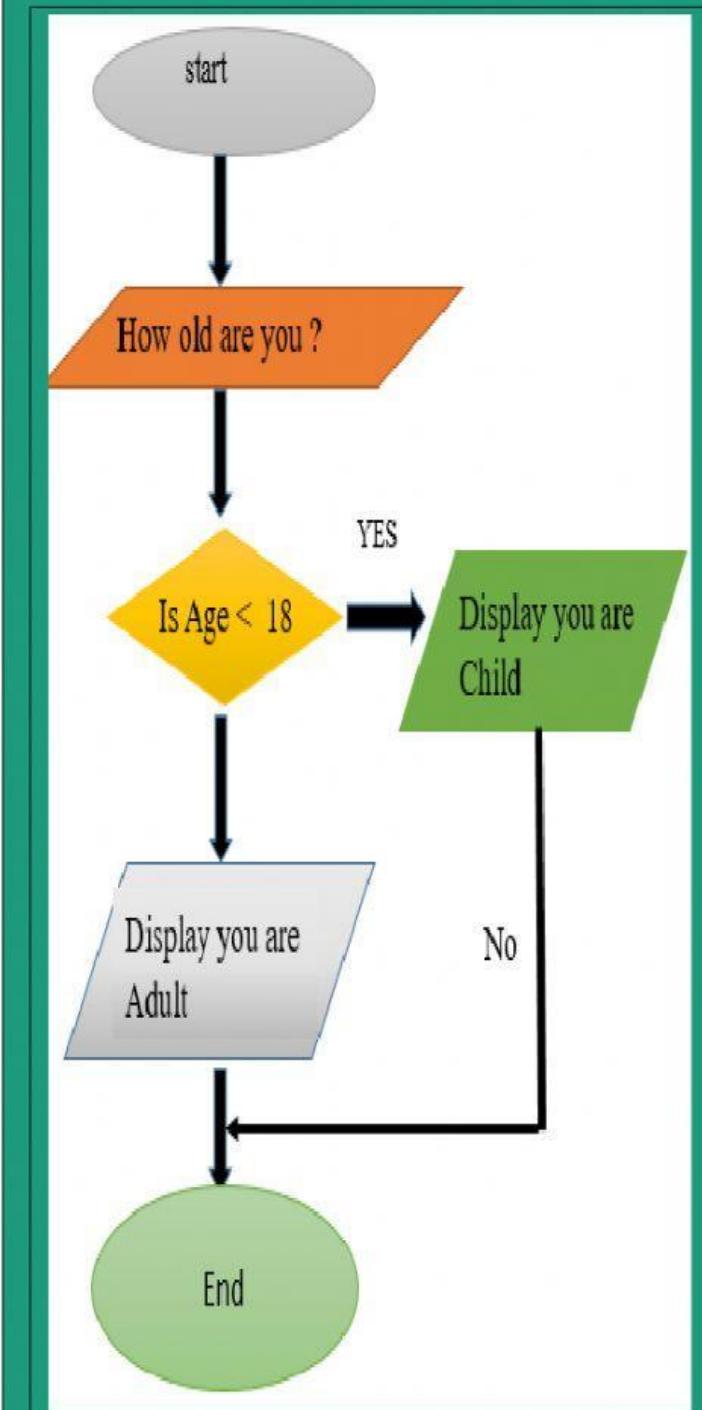
Match the correctly following flow charts symbols
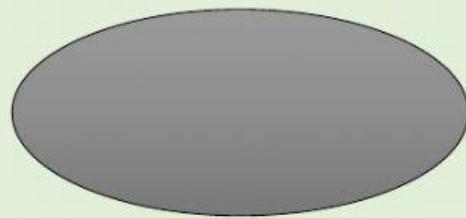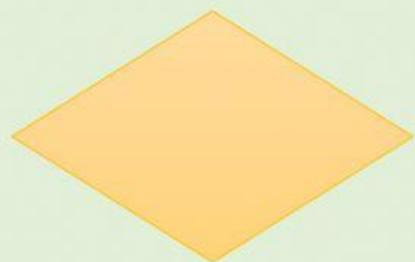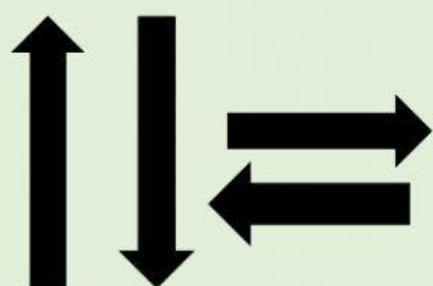
Symbols	Labels
(gray ellipse)	Decision making
(blue rectangle)	Data flow
(orange parallelogram)	Process/Action
(yellow diamond)	Input /Output
(black arrows)	Start / End

Solve the below mention problems
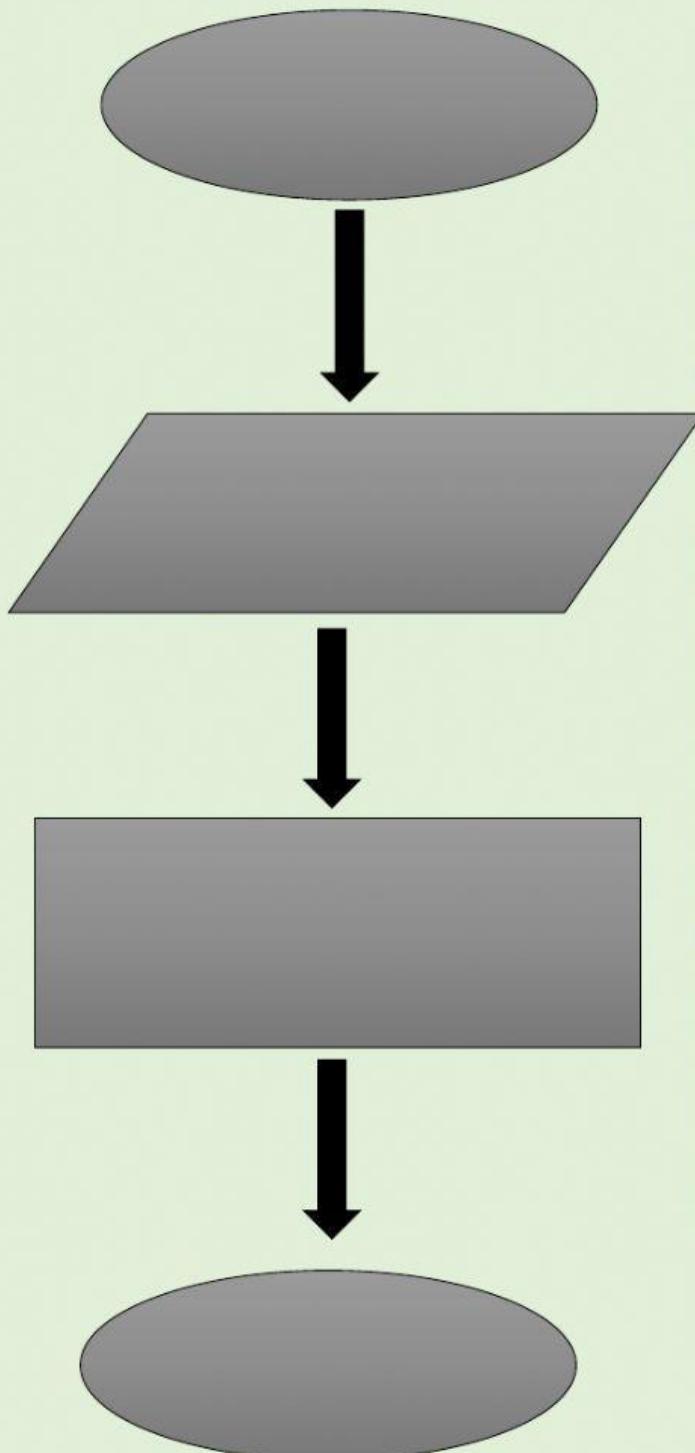
Let's find the perimeter of a square pond

Perimeter = Length × 4

END

Input a length of pond

Start

Going to the playground or the library according to the weather condition.

End

Go to the library

Is today rainy day

Go to the playground

Start

Find out the weather condition

No

Yes