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1. Sinlge board computer is a complete computer that built on a single circuit board with microprocessor, Input/Output (I/O), memory, and other parts that functionally needed. Example : Raspberry Pi, Banana Pi, Arduino.

2. Pseudocode leap year
   Specify the year that want to be checked
   If that_year mod 4 = 0 then that_year is leap else
   If that_year mod 100 = 0 then that_year is not leap else
   if that_year mod 400 = 0 then that_year is leap else that_year is not leap

3. Program to find leap year

4. Flowchart leap year

5. The output is ‘abcd’. Because that is an array. The first index on python is begin from 0.

6. The output is 4. Len() is used to return the length (number of items) of an object.

7. The output is “Yes”.

8. The output is “3”.

9. –

10. –

11. –

12. –

13. The first output is

    0
    1

    First looping to print the value of variable "I" from 0 to 1. Which is have range 2 (0,1)

    The second output is
    4
    5
    Second looping to print the value of variable "I" from 4 to 5. 6 is not include because.

14. Sorting program

```
public class Test {

   /**

    * @param args the command line arguments

    */

   public static void main(String[] args) {

      int n, c, d, swap;

      Scanner in = new Scanner(System.in);

      n=5;

      int array[] = new int[n];



      array[0] = 3;

      array[1] = 7;

      array[2] = 5;

      array[3] = 9;

      array[4] = 1;
```

```
for (c = 0; c < (n - 1); c++) {
   for (d = 0; d < n - c - 1; d++) {
      if (array[d] > array[d + 1]) /* For descending order use < */ {
         swap = array[d];
         array[d] = array[d + 1];
         array[d + 1] = swap;
      }
   }
}

System.out.println("End Condition 1");
for (c = 0; c < n; c++) {
   System.out.println(array[c]);
}

array[0] = 3;
array[1] = 7;
array[2] = 5;
array[3] = 9;
array[4] = 1;

for (c = 0; c < (n - 1); c++) {
```

```
        for (d = 0; d < n - c - 1; d++) {
          if (array[d] < array[d + 1]) /* For descending order use < */ {
            swap = array[d];
            array[d] = array[d + 1];
            array[d + 1] = swap;
          }
        }
      }
      System.out.println("End Condition 2");
      for (c = 0; c < n; c++) {
        System.out.println(array[c]);
      }
    }

}
```

15. –