โปรแกรมที่ 1 // 6 Primitive Data Type

```
class J0101 //{

  public static void main(String args[]) {

    boolean b = true        // ;

    System.out.println("boolean = " + b);

    char y;

    y = 'a';      // ' '

    System.out.println(character = + y);  // " "

    byte c;

    c = 127;

    System.out.println("byte = "  c);        // +

    short a;

    a = 32767;

    System.out.println("Short = " + a)     // ;

    int x;

    y = 2147483647;          // x

    system.out.println("Integer = " + x);   //    System.out.println

    long b;

    b = 9223372036854775807L;
```

```java
        System.out.println("long = " + a); //   b

    }

                                // }
```

โปรแกรมที่ 2 // if

```java
import java.lang     //       .*;

class J0202 {

   public static void main(string args[]) {   // String

      int x;

      x = 6              // ;

      if (x > 5) System.out.println(more than 5);  // " "

else System.out.println(

      "less than or equal 5"

      )                                  // ;

      if (x > 10) System.out.println("more than 10"); else {

         System.out.println("less than or equal 10");

      }

      Comparable a = new Comparable[5];               // []

      a[0] = new Integer(3);
```

```java
        a[1] = new Integer(10);

        a[2] = "abc";

        System.out.println(a[0] + " " + a[1] + " " + a[2])              //;

        if (a[2].equals("abc"))             // {

            System.out.println("equal");

        }

        if (a[0].compareTo(a[1]) < 0) System.out.print(a[0]);

        if (a[1].compareTo(a[0]) > 0) System.out.print(a[0] + "" + a[1]);

        if (a[0].compareTo(a[0]) == 0) System.out.print("equal");

        System.out.print(a[0].compareTo(a[1]));  // )

                                                    // }

}
```

โปรแกรมที่ 3 // while

```java
                                    // class J0205 {

  public static void main(String args[]) {

    System.out.println("print 1 to 10 :: ")           // ;

        int i;

        j = -5;                                 // i

        whle (i <= 5) {                         // while
```

```
try {

i+;                                    //      i++;

System.out.println((double)5/i);

System.out.println(5/j);               // 5/i

}

catch (ArithmeticException) {      // e

System.out.println(may divide by zero);        // " "

}

                                        // }

int k = 0;

i = 0;

while (i < 5) {

System.out.print(++k);

k = k + (i++);

System.out.print(k--)              // ;

}

}
```

โปรแกรมที่ 4 // class

```java
class sub01 {

  subx() {                                  // void

    System.out.println("subx in sub01")            // ;

  }

}


class sub02           // {

  void subx()                  // {

    System.out.println("subx in sub02")   // ;

  }

}


class J0404 sub02 {                  // extends

  j0404()                   // {

    super.subx();

    this.subx();
```

```java
                                        // }


    public static void main(String args[]) {

        sub01 x = new sub01();

        System.out.println("main")                  // ;

        x.subx();

        j0404 y = new j0404();

    }


    void subx()              // {

        System.out.println("subx in main");

    }

}
```

โปรแกรมที่ 5 //   BufferedReader

```java
import                              // java.io.*;


class J0701                  // {


    public static void main(String args[]) throws IOException              // {
```

```java
    int i = 1                                   // ;

    int tot = 0;

    String b;

    String[] fields;

    String patternStr = ",";

    FileReader fin = FileReader("data.txt");                    // new

    BufferedReader bin = new BufferedReader(fin);

    while ((b = bin.readLine()) != null) {

      fields = b.split(patternStr);

      System.out.println(i + " : " + fields);                  // [0]

      system.out.println("Name : " + fields[1]);               // System.out.println

      System.out.println("Salary : " + fields[2]);

      System.out.println("Status : "  fields[3]);              // +

      tot = tot + Integer.parseInt(fields[2]);

      i = i + 1;

                                                               // }

    System.out.println("Total : " + tot);

    fin.close();

}                                                              //   }
```

โปรแกรมที่ 6 //   BufferedReader , while , String

import java.io.*   // ;

import java.lang.*   // ;

class J0702   // {

  public static void main(String args[]) throws IOException {

    int i = 1;

    String b;

    String[] fields;

    String patternStr = ","   // ;

    FileReader = new FileReader("data.txt");   // fin

    BufferedReader = new BufferedReader(fin);   // bin

    FileOutputStream = new FileOutputStream("data.htm");   // fout

    BufferedOutputStream = new BufferedOutputStream(fout);   // bout

    PrintStream = new PrintStream(bout);   // pout

    pout.println("<body bgcolor=yellow><table border=1 width=100%>");

    while ((b = bin.readLine()) != null)   // {

      fields = b.split(patternStr);

```
        pout.println("<tr>");

        pout.println("<td>" + i + "</td>");

        pout.println("<td>" + "ID = " + fields[0] + "</td>");

        pout.println("<td>" + "Name = " + fields[1] + "</td>");

        pout.println("<td>" + "Salary = " + fields[2] + "</td>");

        pout.println("<td>" + "Status = " + fields[3] + "</td>");

        pout.println("</tr>");

        i = i + 1;

      }

    pout.println("</table></body>");

    fin.close();

    pout.close();

   }

}
```

โปรแกรมที่ 7 //   BufferedReader

```
import java.io.*                    // ;


class J0703                        // {
```

```java
public main(String args[]) throws IOException {                    // static void

    int i = 0,                              // d;

    String b;

    String[] fields                         // ;

    String[]= { "", "", "" };               // recs

    String patternStr = ","                 // ;


    FileReader fin = new FileReader("data.txt");

    BufferedReader = new BufferedReader(fin);          // bin


    ((b = bin.readLine()) != null) {                   // while

      recs[i] = b;

      i = i + 1;

                                                       //  }

    fin.close();


    FileOutputStream fout = new FileOutputStream("data.htm");

    BufferedOutputStream bout = new BufferedOutputStream(fout);

    PrintStream pout = new PrintStream(bout);
```

```java
        for (int j = 0; j < i; j++) {

            fields = recs[j].split(patternStr);

            pout.print(fields[0] + "," + fields[1] + ",");


            d = Integer.valueOf(fields[2]).intValue() + 100;

            pout.print(d);

            pout.println("," + fields[3]);

        }

        pout.close();

    }

}
```

โปรแกรมที่ 8 //   BufferedReader , while

```java
import java.io.*                    // ;


class J0801                  // {


void main(String args[]) throws IOException {              //   public static

    int found = 0;

    char                          // buf;
```

```java
String b, g = ""                              // ;

String[] fields;

patternStr = ",";                     // String

System.out.println("Wait id and end character with [x]");

buf = (char) System.in.read();

while (buf != 'x')                            // {

  g = g + buf;

  buf = (char) System.in.read             // ();

}

FileReader fin = new FileReader("data.txt");

BufferedReader bin = new BufferedReader(fin);

while ((b = bin.readLine()) != null) {

  fields = b.split(patternStr);

  if (fields[0].equals(g)) {

    System.out.println(fields);           // [1]

    found = 1;

  }

                                          // }

if (found == 0) System.out.println("Not found");
```

```
    fin.close();

  }

}
```

โปรแกรมที่ 9 //   BufferedReader , while

```
import java.io.*                    // ;


class J0802                    // {



  public static void main(String args[]) throws IOException {

    int found                    // = 0;

    String b, g = ""                    // ;

    String[] fields;

    System.out.println(Wait string and enter);                    // " "

    BufferedReader = new BufferedReader(new InputStreamReader(System.in));   //
stdin

    g = stdin.readLine();

    String patternStr = g                    // ;

    FileReader = new FileReader("data.txt");                    // fin

    BufferedReader = new BufferedReader(fin);                    // bin
```

```java
        ((b = bin.readLine()) != null) {                              // while

            fields = b.split(patternStr);

            if (fields.length > 1) {

                fields = b.split(",");

                System.out.println(fields[0] + fields[1] + fields[2] + fields[3]);

                found = 1;

            }

        }

        if (found == 0) System.out.println("Not found");

        fin.close();

    }

}
```

โปรแกรมที่ 10 //   BufferedReader ,   while , for

```java
import java.io.*                          // ;


class J0901 {


    public static void main(String args[]) throws IOException {

        int i                     // = 0, t1, t2;
```

```java
String b, status;

String fields[];

String[] = new String[10];              // recs1

String[] = { "A,Active", "R,Retire" };  // recs2

String patternStr = ","                 // ;


FileReader = new FileReader("data.txt");         // fin

BufferedReader = new BufferedReader(fin);        // bin

while ((b = bin.readLine()) != null)             // {

    recs1[i] = b;

    i = i + 1;

}

fin.close                  // ();

t1 = i;

t2 = recs2.length;


(int j = 0; j < t1; j++) {                // for
```

```java
      fields = recs1[j].split(patternStr);

      System.out.print(fields[0] + fields[1] + fields[2] + fields[3]);

      status = fields[3];

      for (int k = 0; k < t2; k++) {

        fields = recs2[k].split(patternStr);

        if (fields[0].equals(status)) {

          System.out.println(fields[1]);

        }

      }

    }

  }

}
```