โปรแกรมที่ 1 // 6 Primitive Data Type

```java
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;

    x = 2147483647;

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

    long b;

    b = 9223372036854775807L;
```

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

  }

}
```

โปรแกรมที่ 2 // if

```java
import java.lang.*;

class J0202 {

  public static void main(String args[]) {

    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);

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

```java
    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;

        i = -5;

        while (i <= 5) {

        try {
```

```java
        i++;

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

        System.out.println(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 {
```

```java
    void subx() {

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

    }

}


class sub02 {


    void subx() {

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

    }

}


class J0404 extends sub02 {


    j0404() {

        super.subx(); // subx in sub02

        this.subx(); // subx in main

    }
```

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

    sub01 x = new sub01();

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

    x.subx(); // subx in sub01

    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 {

    int i = 1;
```

```java
        int tot = 0;

        String b;

        String[] fields;

        String patternStr = ",";

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

        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("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

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

    BufferedReader bin = new BufferedReader(fin);

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

    BufferedOutputStream bout = new BufferedOutputStream(fout);

    PrintStream pout = new PrintStream(bout);

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

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

      fields = b.split(patternStr);
```

```java
        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

```java
import java.io.*;


class J0703 {
```

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

    int i = 0, d;

    String b;

    String[] fields;

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

    String patternStr = ",";


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

    BufferedReader bin = new BufferedReader(fin);


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

      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 {



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

    int found = 0;

    char buf;
```

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

String[] fields;

String patternStr = ",";

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");
```

```java
        fin.close();

    }

}
```

โปรแกรมที่ 8 //   BufferedReader , while

```java
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 stdin = new BufferedReader(new InputStreamReader(System.in));

    g = stdin.readLine();

    String patternStr = g;

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

    BufferedReader bin = new BufferedReader(fin);

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

```java
        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 9 //   BufferedReader ,   while

```java
import java.io.*;


class J0901 {


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

    int i = 0, t1, t2;

    String b, status;
```

```java
String fields[];

String[] recs1 = new String[10];

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

String patternStr = ",";


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

BufferedReader bin = new BufferedReader(fin);

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

  recs1[i] = b;

  i = i + 1;

}

fin.close();

t1 = i;

t2 = recs2.length;


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

  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]);

        }

      }

    }

  }

}
```

โปรแกรมที่ 10 // for

```
import java.lang.*;


class J1002 {


  public static void main(String args[]) {

    String tmp, x[] = { "ac", "abc", "adb", "a", "aa", "acd", "a a", "a d" };

    System.out.println("Before sorting");

    prtlist(x);
```

```java
        for (int i = 1; i < x.length; i++) {

            for (int j = x.length - 1; j >= i; j--) {

                if (x[j - 1].compareTo(x[j]) > 0) {

                    tmp = x[j];

                    x[j] = x[j - 1];

                    x[j - 1] = tmp;

                }

            }

        }

        System.out.println("After sorting");

        prtlist(x);

    }


    public static void prtlist(String[] x) {

        for (int i = 0; i < x.length; i++) {

            System.out.println(x[i]);

        }

    }

}
```