SS Main.Java :


```java
package posttest5;

import java.util.ArrayList;
import java.util.Scanner;
public class Main {
    public static boolean isRunning = true;
    // Menu Login
    public static void menuLogin() {
        int menu;
        Scanner pilih = new Scanner(System.in);

        System.out.println("===============================");
        System.out.println("|        SELAMAT DATANG       |");
        System.out.println("|   di PERPUSTAKAAN SMA N 2   |");
        System.out.println("|         Tana Tidung         |");
        System.out.println("===============================");
        System.out.println("| Masuk sebagai :             |");
        System.out.println("| [1] Admin                   |");
        System.out.println("| [2] User / Siswa            |");
        System.out.println("| [0] Exit                    |");
        System.out.println("===============================");
        System.out.print("> Pilih Menu : ");
        menu = pilih.nextInt();
        switch(menu){
            case 1:
                loginAdmin();
                break;
            case 2:
                loginUser();
                break;
            case 0:
                System.out.println("\nTerimaKasih Telah Berkunjung");
                System.exit(0);
            default:
                System.out.println("Pilihan Tidak Ada !!!");
                break;
        }
    }
    // Login Admin / Penjaga Perpustakaan
    public static void loginAdmin() {
        System.out.println("\n===============================");
        System.out.println("| >>  MENU LOGIN ADMIN  << |");
        System.out.println("===============================");
        final String nAdmin = "admin123";
        final int kSandi = 101010;
        Scanner input1 = new Scanner(System.in);
        System.out.print(" Masukkan Username : ");
        String admin = input1.nextLine();
```

Top panel - Project tree:

- 20009106109_AsrilMuhamadFahroji
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    - responsi_modul_4
    - responsi_modul_5
      - Main.java
      - bangunDatar.java
      - lingkaran.java
      - persegi.java
      - segitiga.java
  - Test Packages
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- 2009106109_Asril_Muhamad_Fahroji
  - Source Packages
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    - posttest1_double_posttest
    - posttest2
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      - bukuKelasX.java
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      - bukuKelasXII.java
    - ssProgram
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- Praktikum
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Top panel - Main.java (Source):

```java
50          System.out.print(" Masukkan Password : ");
51          int ktsandi = input1.nextInt();
52          if(admin.equals(nAdmin) && ktsandi == kSandi){
53              menuAdmin();
54          } else {
55              System.out.println("\nUsername & Password salah !!!");
56              loginAdmin();
57          }
58      }
59      // Login User / Siswa
60      public static void loginUser() {
61          ArrayList uname = new ArrayList(); //uname = nama siswa
62          ArrayList pword = new ArrayList(); //pword = nomor induk siswa
63
64          System.out.println("\n===========================");
65          System.out.println("| >>  MENU LOGIN SISWA  <<  |");
66          System.out.println("===========================");
67          Scanner input2 = new Scanner(System.in);
68          System.out.print("| Masukkan Nama : ");
69          uname.add(input2.nextLine());
70          System.out.print("| Masukkan NISN : ");
71          pword.add(input2.nextInt());
72          if(uname.equals(uname) && pword.equals(pword)){
73              menuUser();
74          } else {
75              System.out.println("\nLogin Tidak Berhasil !!!");
76              loginUser();
77          }
78      }
79      // Menu Utama Admin
80      public static void menuAdmin() {
81          int crudB;
82          Scanner crudb = new Scanner(System.in);
83          System.out.println("\n===========================");
84          System.out.println("| >>  MENU UTAMA ADMIN  <<  |");
85          System.out.println("===========================");
86          System.out.println("| [1] CRUD Buku Kelas X     |");
87          System.out.println("| [2] CRUD Buku Kelas XI    |");
88          System.out.println("| [3] CRUD Buku Kelas XII   |");
89          System.out.println("| [4] Daftar Pengunjung     |");
90          System.out.println("| [0] Exit                  |");
91          System.out.println("===========================");
92          System.out.print("> Pilih Menu : ");
93          crudB = crudb.nextInt();
94          switch(crudB) {
95              case 1:
96                  crudX();
97                  break;
98              case 2:
```

Bottom panel - Project tree:

- 20009106109_AsrilMuhamadFahroji
  - Source Packages
    - responsi_modul_3
    - responsi_modul_4
    - responsi_modul_5
      - Main.java
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    - posttest1
    - posttest1_double_posttest
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Bottom panel - Main.java (Source):

```java
99                  crudXI();
100                 break;
101             case 3:
102                 crudXII();
103                 break;
104             case 4:
105                 siswa();
106                 break;
107             case 0:
108                 System.out.println("\nTerimakasih Telah Berkunjung");
109                 System.exit(0);
110                 break;
111             default:
112                 System.out.println("Menu Tidak Ada !!!");
113                 menuAdmin();
114                 break;
115         }
116     }
117     // Menu Utama User
118     public static void menuUser() {
119         int menu;
120         Scanner siswa = new Scanner(System.in);
121         System.out.println("\n===========================");
122         System.out.println("| >>  MENU UTAMA SISWA  <<  |");
123         System.out.println("===========================");
124         System.out.println("| [1] Daftar Buku Pelajaran |");
125         System.out.println("| [0] Exit                  |");
126         System.out.println("===========================");
127         System.out.print("> Pilih Menu : ");
128         menu = siswa.nextInt();
129         switch(menu) {
130             case 1:
131                 kelas();
132                 bacapinjam();
133                 break;
134             case 0:
135                 System.out.println("\nTerimakasih Telah Berkunjung");
136                 System.exit(0);
137                 break;
138             default:
139                 System.out.println("Menu Tidak Ada !!!");
140                 menuUser();
141                 break;
142         }
143     }
144     // CRUD Buku Kelas X
145     public static void crudX() {
146         int nol;
147         ArrayList kelasX = new ArrayList();
```

Main.java ×

Source | History

```java
148        // Read Buku Kelas X
149        System.out.println("\n==========================");
150        System.out.println("| Daftar Buku Kelas X :     |");
151        System.out.println("==========================");
152        kelasX.add("Biologi");
153        kelasX.add("Fisika");
154        kelasX.add("Kimia");
155        for(int i = 0; i < kelasX.size(); i++) {
156            System.out.println(kelasX.get(i));
157        } System.out.println("==========================");
158        // Create Buku Kelas XS
159        System.out.println("\nTambah Buku Baru");
160        Scanner bukuX = new Scanner(System.in);
161        System.out.print("Masukkan Judul Buku : ");
162        kelasX.add(bukuX.nextLine());
163        // Update Buku Kelas X menggunakan Overridding
164        posttest5.bukuKelasX edit = new posttest5.bukuKelasX("", 0);
165        System.out.println("\nEdit Buku");
166        Scanner index = new Scanner(System.in);
167        System.out.print("Masukkan No. Buku    : ");
168        no1 = index.nextInt();
169        System.out.print("Masukkan Judul Baru  : ");
170        kelasX.set(no1, bukuX.nextLine());
171        Scanner jenis = new Scanner(System.in);
172        System.out.print("Masukkan Jenis Buku  : ");
173        String jenisX = jenis.nextLine();
174        Scanner jumlah = new Scanner(System.in);
175        System.out.print("Masukkan Jumlah Buku : ");
176        int jumlahX = jumlah.nextInt();
177        // Hapus Buku Kelas X
178        System.out.println("\nHapus Buku");
179        System.out.print("Masukkan Judul Buku : ");
180        kelasX.remove(bukuX.nextLine());
181        // Setelah di CRUD
182        System.out.println("\n==========================");
183        System.out.println("| Data Buku setelah di CRUD |");
184        System.out.println("==========================");
185        kelasX.forEach(buku -> {
186            System.out.println(buku);
187        });
188        System.out.println("==========================");
189        menuAdmin();
190    }
191    // CRUD Buku Kelas XI
192    public static void crudXI() {
193        int no2;
194        ArrayList kelasXI = new ArrayList();
195        // Read Buku Kelas XI
196        System.out.println("\n==========================");
```

Main.java ×

Source | History

```java
197        System.out.println("| Daftar Buku Kelas XI :    |");
198        System.out.println("==========================");
199        kelasXI.add("Ekonomi");
200        kelasXI.add("Gegografi");
201        kelasXI.add("Sosiologi");
202        for(int i = 0; i < kelasXI.size(); i++) {
203            System.out.println(kelasXI.get(i));
204        } System.out.println("==========================");
205        // Create Buku Kelas XI
206        System.out.println("\nTambah Buku Baru");
207        Scanner bukuXI = new Scanner(System.in);
208        System.out.print("Masukkan Judul Buku : ");
209        kelasXI.add(bukuXI.nextLine());
210        // Update Buku Kelas XI menggunakan Overridding
211        posttest5.bukuKelasXI edit = new posttest5.bukuKelasXI("", 0);
212        System.out.println("\nEdit Buku");
213        Scanner index = new Scanner(System.in);
214        System.out.print("Masukkan No. Buku : ");
215        no2 = index.nextInt();
216        System.out.print("Masukkan Judul Baru : ");
217        kelasXI.set(no2, bukuXI.nextLine());
218        Scanner jenis = new Scanner(System.in);
219        System.out.print("Masukkan Jenis Buku  : ");
220        String jenisXI = jenis.nextLine();
221        Scanner jumlah = new Scanner(System.in);
222        System.out.print("Masukkan Jumlah Buku : ");
223        int jumlahXI = jumlah.nextInt();
224        // Hapus Buku Kelas XI
225        System.out.println("\nHapus Buku");
226        System.out.print("Masukkan Judul Buku : ");
227        kelasXI.remove(bukuXI.nextLine());
228        // Setelah di CRUD
229        System.out.println("\n==========================");
230        System.out.println("| Data Buku setelah di CRUD |");
231        System.out.println("==========================");
232        kelasXI.forEach(buku -> {
233            System.out.println(buku);
234        });
235        System.out.println("==========================");
236        menuAdmin();
237    }
238    // CRUD Buku Kelas XII
239    public static void crudXII() {
240        int no3;
241        ArrayList kelasXII = new ArrayList();
242        // Read Buku Kelas XII
243        System.out.println("\n==========================");
244        System.out.println("Daftar Buku Kelas XII :");
245        System.out.println("==========================");
```

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    responsi_modul_4
    responsi_modul_5
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```

Main.java

Source | History

```java
246          kelasXII.add("Matematika Kelas XII");
247          kelasXII.add("Bahasa Inggris Kelas XII");
248          kelasXII.add("Seni Budaya Kelas XII");
249          for(int i = 0; i < kelasXII.size(); i++) {
250              System.out.println(kelasXII.get(i));
251          } System.out.println("==========================");
252          // Create Buku Kelas XII
253          System.out.println("\nTambah Buku Baru");
254          Scanner bukuXII = new Scanner(System.in);
255          System.out.print("Masukkan Judul Buku : ");
256          kelasXII.add(bukuXII.nextLine());
257          // Update Buku Kelas XII menggunakan Overridding
258          posttest5.bukuKelasXII edit = new posttest5.bukuKelasXII("", 0);
259          System.out.println("\nEdit Buku");
260          Scanner index = new Scanner(System.in);
261          System.out.print("Masukkan No. Buku : ");
262          no3 = index.nextInt();
263          System.out.print("Masukkan Judul Baru : ");
264          kelasXII.set(no3, bukuXII.nextLine());
265          Scanner jenis = new Scanner(System.in);
266          System.out.print("Masukkan Jenis Buku  : ");
267          String jenisXII = jenis.nextLine();
268          Scanner jumlah = new Scanner(System.in);
269          System.out.print("Masukkan Jumlah Buku : ");
270          int jumlahXII = jumlah.nextInt();
271          // Hapus Buku Kelas XII
272          System.out.println("\nHapus Buku");
273          System.out.print("Masukkan Judul Buku : ");
274          kelasXII.remove(bukuXII.nextLine());
275          // Setelah di CRUD
276          System.out.println("\n==========================");
277          System.out.println("| Data Buku setelah di CRUD |");
278          System.out.println("==========================");
279          kelasXII.forEach(buku -> {
280              System.out.println(buku);
281          });
282          System.out.println("==========================");
283          menuAdmin();
284      }
285      // Daftar Buku Pelajaran
286      public static void kelas() {
287          ArrayList kelas = new ArrayList();
288          kelas.add("| Biologi");
289          kelas.add("| Ekonomi");
290          kelas.add("| Fisika");
291          kelas.add("| Geografi");
292          kelas.add("| Kimia");
293          kelas.add("| Matematika");
294          kelas.add("| PPkn");
```

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```

Main.java

Source | History

```java
295          kelas.add("| Sejarah");
296          kelas.add("| Seni Budaya");
297          System.out.println("==========================");
298          System.out.println("|    Daftar Buku Pelajaran    |");
299          System.out.println("==========================");
300          for(int i = 0; i < kelas.size(); i++) {
301              System.out.println(kelas.get(i));
302          } System.out.println("==========================");
303      }
304      // Menu Baca & Pinjam Buku
305      public static void bacapinjam() {
306          System.out.println("1. Baca buku");
307          System.out.println("2. Pinjam buku");
308          System.out.println("0. Kembali");
309          Scanner pilih = new Scanner(System.in);
310          System.out.print("> Pilih : ");
311          int menu = pilih.nextInt();
312          switch (menu) {
313              case 1:
314                  bacaBuku();
315                  menuUser();
316                  break;
317              case 2:
318                  pinjamBuku();
319                  menuUser();
320                  break;
321              case 0:
322                  menuUser();
323                  break;
324              default:
325                  System.out.println("Input salah");
326                  bacapinjam();
327                  break;
328          }
329      }
330      // Method Baca Buku
331      public static void bacaBuku() {
332          posttest5.Siswa nama = new posttest5.Siswa("", 0, 0);
333          System.out.println("\n==========================");
334          Scanner nSiswa = new Scanner(System.in);
335          System.out.print("Nama siswa : ");
336          nama.setNama(nSiswa.nextLine());
337          Scanner pilih = new Scanner(System.in);
338          System.out.println("Kelas X = 10\nKelas XI = 11\nKelas XII = 12");
339          System.out.print("Pilih Kategori Buku : ");
340          int kelas = pilih.nextInt();
341          switch (kelas) {
342              case 10:
343                  {
```
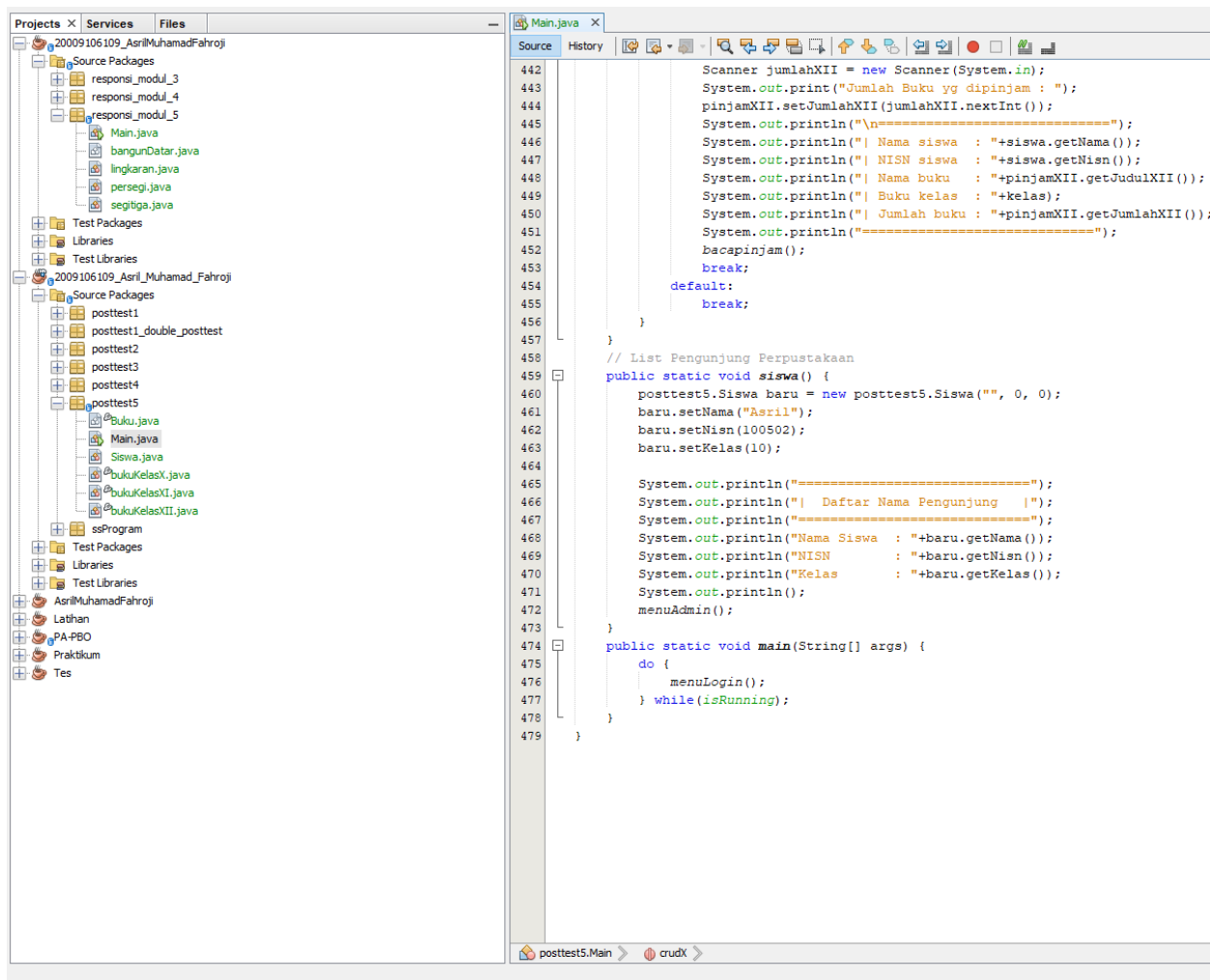
Main.java ×
Source | History

```java
344            posttest5.bukuKelasX bacaX = new posttest5.bukuKelasX("", 0);
345            Scanner bukuX = new Scanner(System.in);
346            System.out.print("Nama Buku : ");
347            bacaX.setJudulX(bukuX.nextLine());
348            System.out.println("\n============================");
349            System.out.println("| Nama siswa : "+nama.getNama());
350            System.out.println("| Nama buku  : "+bacaX.getJudulX());
351            System.out.println("| Buku kelas : "+kelas);
352            System.out.println("============================");
353            bacapinjam();
354            break;
355        }
356        case 11:
357        {
358            posttest5.bukuKelasXI bacaXI = new posttest5.bukuKelasXI("", 0);
359            Scanner bukuXI = new Scanner(System.in);
360            System.out.print("Nama Buku : ");
361            bacaXI.setJudulXI(bukuXI.nextLine());
362            System.out.println("\n============================");
363            System.out.println("| Nama siswa : "+nama.getNama());
364            System.out.println("| Nama buku  : "+bacaXI.getJudulXI());
365            System.out.println("| Buku kelas : "+kelas);
366            System.out.println("============================");
367            bacapinjam();
368            break;
369        }
370        case 12:
371        {
372            posttest5.bukuKelasXII bacaXII = new posttest5.bukuKelasXII("", 0);
373            Scanner bukuXII = new Scanner(System.in);
374            System.out.print("Nama Buku : ");
375            bacaXII.setJudulXII(bukuXII.nextLine());
376            System.out.println("\n============================");
377            System.out.println("| Nama siswa : "+nama.getNama());
378            System.out.println("| Nama buku  : "+bacaXII.getJudulXII());
379            System.out.println("| Buku kelas : "+kelas);
380            System.out.println("============================");
381            bacapinjam();
382            break;
383        }
384        default:
385            break;
386        }
387    }
388    // Method Pinjam Buku
389    public static void pinjamBuku() {
390        posttest5.Siswa siswa = new posttest5.Siswa("", 0, 0);
391        System.out.println("\n============================");
392        Scanner namaS = new Scanner(System.in);
```
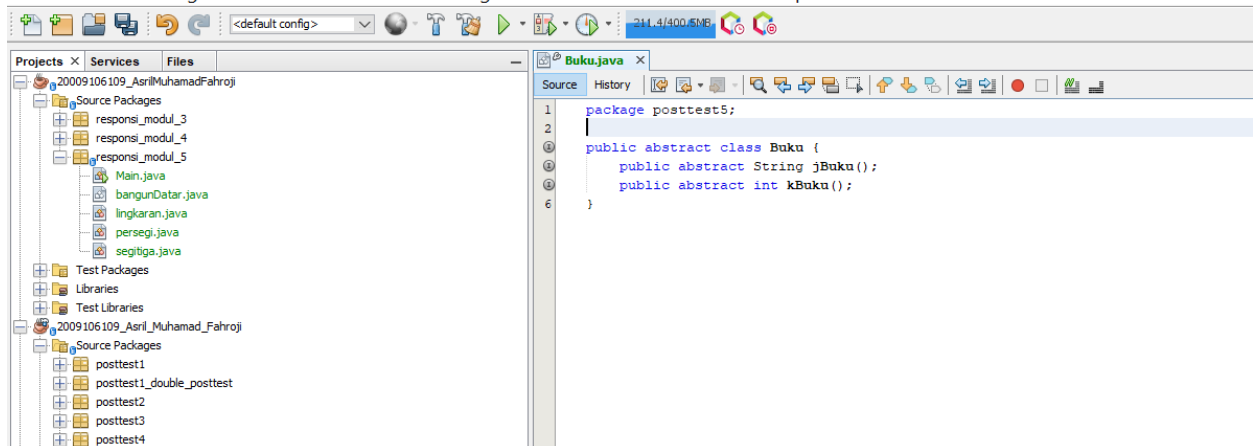
Main.java ×
Source | History

```java
393            System.out.print("Masukkan Nama siswa : ");
394            siswa.setNama(namaS.nextLine());
395            Scanner nisnS = new Scanner(System.in);
396            System.out.print("Masukkan NISN siswa : ");
397            siswa.setNisn(nisnS.nextInt());
398            Scanner pilih = new Scanner(System.in);
399            System.out.println("Kelas X = 10\nKelas XI = 11\nKelas XII = 12");
400            System.out.print("Pilih Kategori Buku : ");
401            int kelas = pilih.nextInt();
402            switch(kelas) {
403                case 10:
404                    posttest5.bukuKelasX pinjamX = new posttest5.bukuKelasX("", 0);
405                    Scanner bukuX = new Scanner(System.in);
406                    System.out.print("Masukkan Nama Buku  : ");
407                    pinjamX.setJudulX(bukuX.nextLine());
408                    Scanner jumlahX = new Scanner(System.in);
409                    System.out.print("Jumlah Buku yg dipinjam : ");
410                    pinjamX.setJumlahX(jumlahX.nextInt());
411                    System.out.println("\n============================");
412                    System.out.println("| Nama siswa  : "+siswa.getNama());
413                    System.out.println("| NISN siswa  : "+siswa.getNisn());
414                    System.out.println("| Nama buku   : "+pinjamX.getJudulX());
415                    System.out.println("| Buku kelas  : "+kelas);
416                    System.out.println("| Jumlah buku : "+pinjamX.getJumlahX());
417                    System.out.println("============================");
418                    bacapinjam();
419                    break;
420                case 11:
421                    posttest5.bukuKelasXI pinjamXI = new posttest5.bukuKelasXI("", 0);
422                    Scanner bukuXI = new Scanner(System.in);
423                    System.out.print("Masukkan Nama Buku  : ");
424                    pinjamXI.setJudulXI(bukuXI.nextLine());
425                    Scanner jumlahXI = new Scanner(System.in);
426                    System.out.print("Jumlah Buku yg dipinjam : ");
427                    pinjamXI.setJumlahXI(jumlahXI.nextInt());
428                    System.out.println("\n============================");
429                    System.out.println("| Nama siswa  : "+siswa.getNama());
430                    System.out.println("| NISN siswa  : "+siswa.getNisn());
431                    System.out.println("| Nama buku   : "+pinjamXI.getJudulXI());
432                    System.out.println("| Buku kelas  : "+kelas);
433                    System.out.println("| Jumlah buku : "+pinjamXI.getJumlahXI());
434                    System.out.println("============================");
435                    bacapinjam();
436                    break;
437                case 12:
438                    posttest5.bukuKelasXII pinjamXII = new posttest5.bukuKelasXII("", 0);
439                    Scanner bukuXII = new Scanner(System.in);
440                    System.out.print("Masukkan Nama Buku  : ");
441                    pinjamXII.setJudulXII(bukuXII.nextLine());
```

```
442         Scanner jumlahXII = new Scanner(System.in);
443         System.out.print("Jumlah Buku yg dipinjam : ");
444         pinjamXII.setJumlahXII(jumlahXII.nextInt());
445         System.out.println("\n===========================");
446         System.out.println("| Nama siswa   : "+siswa.getNama());
447         System.out.println("| NISN siswa   : "+siswa.getNisn());
448         System.out.println("| Nama buku    : "+pinjamXII.getJudulXII());
449         System.out.println("| Buku kelas   : "+kelas);
450         System.out.println("| Jumlah buku  : "+pinjamXII.getJumlahXII());
451         System.out.println("===========================");
452         bacapinjam();
453         break;
454     default:
455         break;
456     }
457 }
458 // List Pengunjung Perpustakaan
459 public static void siswa() {
460     posttest5.Siswa baru = new posttest5.Siswa("", 0, 0);
461     baru.setNama("Asril");
462     baru.setNisn(100502);
463     baru.setKelas(10);
464
465     System.out.println("===========================");
466     System.out.println("|  Daftar Nama Pengunjung  |");
467     System.out.println("===========================");
468     System.out.println("Nama Siswa   : "+baru.getNama());
469     System.out.println("NISN         : "+baru.getNisn());
470     System.out.println("Kelas        : "+baru.getKelas());
471     System.out.println();
472     menuAdmin();
473 }
474 public static void main(String[] args) {
475     do {
476         menuLogin();
477     } while(isRunning);
478 }
479 }
```

posttest5.Main   crudX

SS Buku.Java :

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```
1 package posttest5;
2
  public abstract class Buku {
    public abstract String jBuku();
    public abstract int kBuku();
6 }
```

SS bukuKelasX.Java :


```java
package posttest5;

public class bukuKelasX extends Buku {
    private String judulX;
    private int jumlahX;
    private String jBuku;
    private int kBuku;

    public bukuKelasX(String judulX, int jumlahX) {
        this.judulX = judulX;
        this.jumlahX = jumlahX;
    }

    public String getJudulX() {
        return judulX;
    }

    public void setJudulX(String judulX) {
        this.judulX = judulX;
    }

    public int getJumlahX() {
        return jumlahX;
    }

    public void setJumlahX(int jumlahX) {
        this.jumlahX = jumlahX;
    }

    @Override
    public String jBuku() {
        String jenisBuku = "";
        return this.jBuku = jenisBuku;
    }

    @Override
    public int kBuku() {
        int kodeBuku = 0;
        return this.kBuku = kodeBuku;
    }
}
```

SS bukuKelasXI.Java :

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bukuKelasXI.java ×

Source   History

```java
package posttest5;

public class bukuKelasXI extends Buku {
    private String judulXI;
    private int jumlahXI;
    private String jBuku;
    private int kBuku;

    public bukuKelasXI(String judulXI, int jumlahXI) {
        this.judulXI = judulXI;
        this.jumlahXI = jumlahXI;
    }

    public String getJudulXI() {
        return judulXI;
    }

    public void setJudulXI(String judulXI) {
        this.judulXI = judulXI;
    }

    public int getJumlahXI() {
        return jumlahXI;
    }

    public void setJumlahXI(int jumlahXI) {
        this.jumlahXI = jumlahXI;
    }

    @Override
    public String jBuku() {
        String jenisBuku = "";
        return this.jBuku = jenisBuku;
    }

    @Override
    public int kBuku() {
        int kodeBuku = 0;
        return this.kBuku = kodeBuku;
    }
}
```

SS bukuKelasXII.Java :


```java
package posttest5;

public class bukuKelasXII extends Buku {
    private String judulXII;
    private int jumlahXII;
    private String jBuku;
    private int kBuku;

    public bukuKelasXII(String judulXII, int jumlahXII) {
        this.judulXII = judulXII;
        this.jumlahXII = jumlahXII;
    }

    public String getJudulXII() {
        return judulXII;
    }

    public void setJudulXII(String judulXII) {
        this.judulXII = judulXII;
    }

    public int getJumlahXII() {
        return jumlahXII;
    }

    public void setJumlahXII(int jumlahXII) {
        this.jumlahXII = jumlahXII;
    }

    @Override
    public String jBuku() {
        String jenisBuku = "";
        return this.jBuku = jenisBuku;
    }

    @Override
    public int kBuku() {
        int kodeBuku = 0;
        return this.kBuku = kodeBuku;
    }
}
```

SS Siswa.Java :

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Siswa.java ×

Source   History

```java
package posttest5;

public class Siswa {
    private String nama;
    private int nisn;
    private int kelas;

    public Siswa(String nama, int nisn, int kelas) {
        this.nama = nama;
        this.nisn = nisn;
        this.kelas = kelas;
    }

    public int getKelas() {
        return kelas;
    }

    public void setKelas(int kelas) {
        this.kelas = kelas;
    }

    public String getNama() {
        return nama;
    }

    public void setNama(String nama) {
        this.nama = nama;
    }

    public int getNisn() {
        return nisn;
    }

    public void setNisn(int nisn) {
        this.nisn = nisn;
    }
}
```