

## Posttest 3 PBO

Asril Muhamad Fahroji

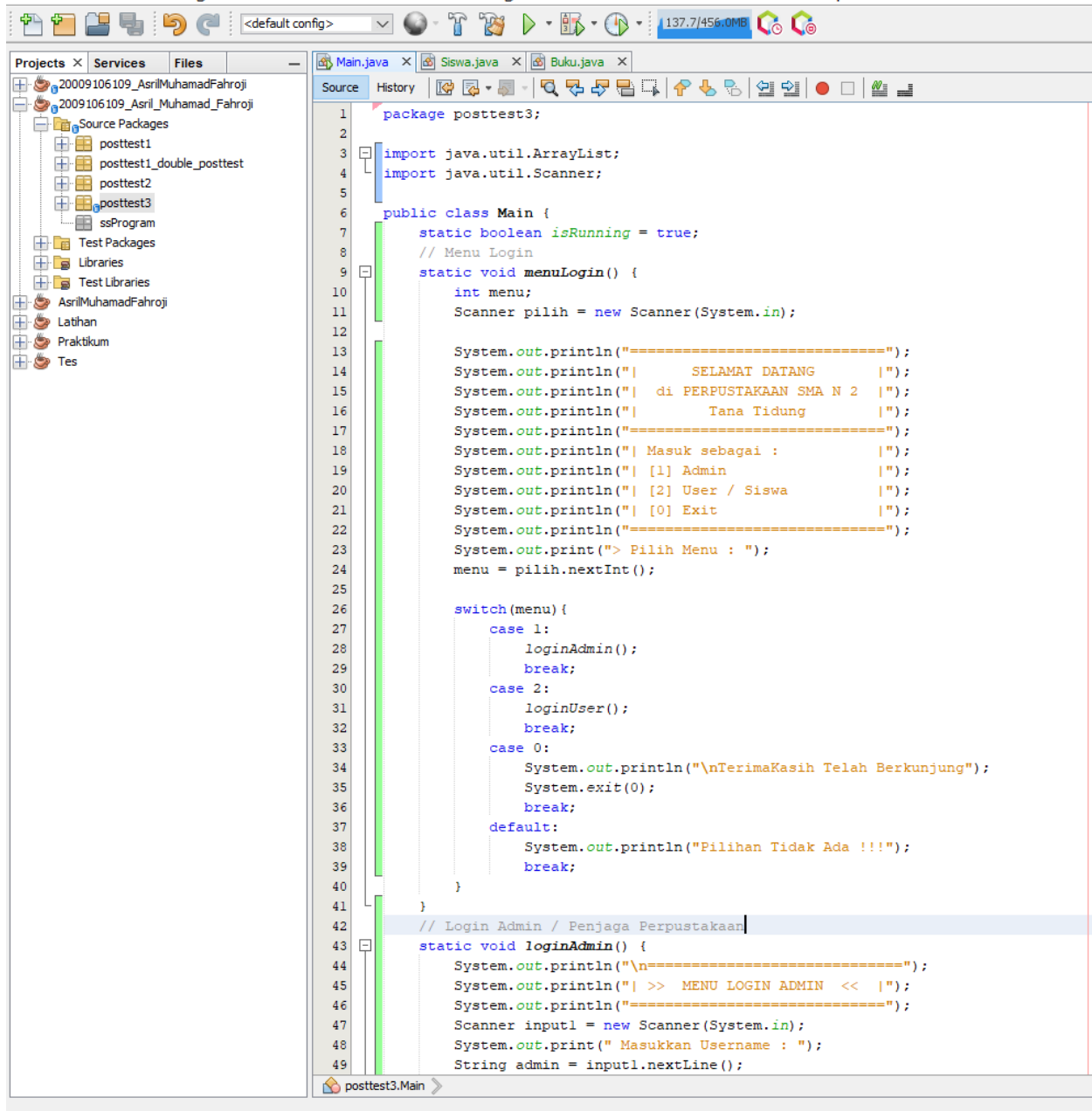
2009106109

Informatika C-20

Main.java :

2009106109\_Asril\_Muhamad\_Fahroji - Apache NetBeans IDE 12.3

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```
1 package posttest3;
2
3 import java.util.ArrayList;
4 import java.util.Scanner;
5
6 public class Main {
7     static boolean isRunning = true;
8     // Menu Login
9     static void menuLogin() {
10         int menu;
11         Scanner pilih = new Scanner(System.in);
12
13         System.out.println("=====");
14         System.out.println("|          SELAMAT DATANG          |");
15         System.out.println("| di PERPUSTAKAAN SMA N 2 |");
16         System.out.println("|          Tana Tidung          |");
17         System.out.println("=====");
18         System.out.println("| Masuk sebagai : |");
19         System.out.println("| [1] Admin |");
20         System.out.println("| [2] User / Siswa |");
21         System.out.println("| [0] Exit |");
22         System.out.println("=====");
23         System.out.print("> Pilih Menu : ");
24         menu = pilih.nextInt();
25
26         switch(menu) {
27             case 1:
28                 loginAdmin();
29                 break;
30             case 2:
31                 loginUser();
32                 break;
33             case 0:
34                 System.out.println("\nTerimaKasih Telah Berkunjung");
35                 System.exit(0);
36                 break;
37             default:
38                 System.out.println("Pilihan Tidak Ada !!!");
39                 break;
40         }
41     }
42     // Login Admin / Penjaga Perpustakaan
43     static void loginAdmin() {
44         System.out.println("\n=====");
45         System.out.println("| >> MENU LOGIN ADMIN << |");
46         System.out.println("=====");
47         Scanner input1 = new Scanner(System.in);
48         System.out.print(" Masukkan Username : ");
49         String admin = input1.nextLine();
```

2009106109\_Asril\_Muhamad\_Fahroji

Source Packages

- posttest1
- posttest1\_double\_posttest
- posttest2
- posttest3
- ssProgram
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- Libraries
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- AsrilMuhamadFahroji
- Latihan
- Praktikum
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Main.java x Siswa.java x Buku.java x

Source History

```

50      System.out.print(" Masukkan Password : ");
51      int ktsandi = input1.nextInt();
52      if(admin.equals("admin123") && ktsandi == 101010){
53          menuAdmin();
54      } else {
55          System.out.println("\nUsername & Password salah !!!");
56          loginAdmin();
57      }
58  }
59
60  // Login User / Siswa
61  static void loginUser() {
62      ArrayList uname = new ArrayList(); //uname = nama siswa
63      ArrayList pword = new ArrayList(); //pword = nomor induk siswa
64
65      System.out.println("\n=====");
66      System.out.println("| >>  MENU LOGIN SISWA  <<  |");
67      System.out.println("=====");
68      Scanner input2 = new Scanner(System.in);
69      System.out.print("| Masukkan Nama : ");
70      uname.add(input2.nextLine());
71      System.out.print("| Masukkan NISN : ");
72      pword.add(input2.nextInt());
73      if(uname.equals(uname) && pword.equals(pword)){
74          menuUser();
75      } else {
76          System.out.println("\nLogin Tidak Berhasil !!!");
77          loginUser();
78      }
79  }
80
81  // Menu Utama Admin
82  static void menuAdmin() {
83      int crudB;
84      Scanner crudb = new Scanner(System.in);
85      System.out.println("\n=====");
86      System.out.println("| >>  MENU UTAMA ADMIN  <<  |");
87      System.out.println("=====");
88      System.out.println("| [1] CRUD Buku Kelas X      |");
89      System.out.println("| [2] CRUD Buku Kelas XI     |");
90      System.out.println("| [3] CRUD Buku Kelas XII    |");
91      System.out.println("| [4] Daftar Pengunjung      |");
92      System.out.println("| [0] Exit                    |");
93      System.out.println("=====");
94      System.out.print("> Pilih Menu : ");
95      crudB = crudb.nextInt();
96      switch(crudB) {
97          case 1:
98              crudX();
99              break;
100         case 2:

```

posttest3.Main

The screenshot displays the Apache NetBeans IDE 12.3 interface. The **Projects** window on the left shows a project named **2009106109\_Asril\_Muhamad\_Fahroji** with a **Source Packages** folder containing **posttest1**, **posttest1\_double\_posttest**, **posttest2**, and **posttest3**. The **Source** window in the center shows the **Main.java** file with the following code:

```
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  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] Buku Kelas X      |");
125      System.out.println("| [2] Buku Kelas XI     |");
126      System.out.println("| [3] Buku Kelas XII    |");
127      System.out.println("| [0] Exit              |");
128      System.out.println("=====");
129      System.out.print("> Pilih Menu : ");
130      menu = siswa.nextInt();
131      switch(menu) {
132          case 1:
133              kelasX();
134              bacapinjam();
135              break;
136          case 2:
137              kelasXI();
138              bacapinjam();
139              break;
140          case 3:
141              kelasXII();
142              bacapinjam();
143              break;
144          case 0:
145              System.out.println("\nTerimakasih Telah Berkunjung");
146              System.exit(0);
147              break;
```

The status bar at the bottom indicates the current file is **posttest3.Main**.

Source History

```

148         default:
149             System.out.println("Menu Tidak Ada !!!");
150             menuUser();
151             break;
152     }
153 }
154 // CRUD Buku Kelas X
155 static void crudX() {
156     int nol;
157     ArrayList kelasX = new ArrayList();
158     // Read Buku Kelas X
159     System.out.println("\n=====");
160     System.out.println("| Daftar Buku Kelas X : |");
161     System.out.println("=====");
162     kelasX.add("Biologi");
163     kelasX.add("Fisika");
164     kelasX.add("Kimia");
165     for(int i = 0; i < kelasX.size(); i++) {
166         System.out.println(kelasX.get(i));
167     } System.out.println("=====");
168     // Create Buku Kelas XS
169     System.out.println("\nTambah Buku Baru");
170     Scanner bukuX = new Scanner(System.in);
171     System.out.print("Masukkan Judul Buku : ");
172     kelasX.add(bukuX.nextLine());
173     // Update Buku Kelas X
174     Buku edit = new Buku("", 0, 0, "");
175     System.out.println("\nEdit Buku");
176     Scanner index = new Scanner(System.in);
177     System.out.print("Masukkan No. Buku : ");
178     nol = index.nextInt();
179     System.out.print("Masukkan Judul Baru : ");
180     kelasX.set(nol, bukuX.nextLine());
181     Scanner ubahKategori = new Scanner(System.in);
182     System.out.print("Kategori Buku Baru : ");
183     edit.setKategoriBuku(ubahKategori.nextInt());
184     Scanner ubahWarna = new Scanner(System.in);
185     System.out.print("Warna Buku Baru : ");
186     edit.setWarnaBuku(ubahWarna.nextLine());
187     // Hapus Buku Kelas X
188     System.out.println("\nHapus Buku");
189     System.out.print("Masukkan Judul Buku : ");
190     kelasX.remove(bukuX.nextLine());
191     // Setelah di CRUD
192     System.out.println("\n=====");
193     System.out.println("| Data Buku setelah di CRUD |");
194     System.out.println("=====");
195     kelasX.forEach(buku -> {
196         System.out.println(buku+" Kelas "+edit.getKategoriBuku()

```

Source History

```

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

```

posttest3.Main crudXI

319.9/462.5MB

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Siswa.java Buku.java Main.java

Source History

```

246     });
247     System.out.println("=====");
248     menuAdmin();
249 }
250 // CRUD Buku Kelas XII
251 static void crudXII() {
252     int no3;
253     ArrayList kelasXII = new ArrayList();
254     // Read Buku Kelas XII
255     System.out.println("\n=====");
256     System.out.println("Daftar Buku Kelas XII :");
257     System.out.println("=====");
258     kelasXII.add("Matematika Kelas XII");
259     kelasXII.add("Bahasa Inggris Kelas XII");
260     kelasXII.add("Seni Budaya Kelas XII");
261     for(int i = 0; i < kelasXII.size(); i++) {
262         System.out.println(kelasXII.get(i));
263     } System.out.println("=====");
264     // Create Buku Kelas XII
265     System.out.println("\nTambah Buku Baru");
266     Scanner bukuXII = new Scanner(System.in);
267     System.out.print("Masukkan Judul Buku : ");
268     kelasXII.add(bukuXII.nextLine());
269     // Update Buku Kelas XII
270     Buku edit = new Buku("", 0, 0, "");
271     System.out.println("\nEdit Buku");
272     Scanner index = new Scanner(System.in);
273     System.out.print("Masukkan No. Buku : ");
274     no3 = index.nextInt();
275     System.out.print("Masukkan Judul Baru : ");
276     kelasXII.set(no3, bukuXII.nextLine());
277     Scanner ubahKategori = new Scanner(System.in);
278     System.out.print("Kategori Buku Baru : ");
279     edit.setKategoriBuku(ubahKategori.nextInt());
280     Scanner ubahWarna = new Scanner(System.in);
281     System.out.print("Warna Buku Baru : ");
282     edit.setWarnaBuku(ubahWarna.nextLine());
283     // Hapus Buku Kelas XII
284     System.out.println("\nHapus Buku");
285     System.out.print("Masukkan Judul Buku : ");
286     kelasXII.remove(bukuXII.nextLine());
287     // Setelah di CRUD
288     System.out.println("\n=====");
289     System.out.println("| Data Buku setelah di CRUD |");
290     System.out.println("=====");
291     kelasXII.forEach(buku -> {
292         System.out.println(buku+" Kelas "+edit.getKategoriBuku()
293             +" (" +edit.getWarnaBuku()+")");
294     });

```

posttest3.Main crudXII

358.0/162.5MB

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    - posttest1\_double\_posttest
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Siswa.java Buku.java Main.java

Source History

```

295     System.out.println("=====");
296     menuAdmin();
297 }
298 // Daftar Buku Kelas X
299 static void kelasX() {
300     ArrayList kelasX = new ArrayList();
301     kelasX.add("| Biologi Kelas X");
302     kelasX.add("| Fisika Kelas X");
303     kelasX.add("| Kimia Kelas X");
304     System.out.println("=====");
305     System.out.println("|    Daftar Buku Kelas X    |");
306     System.out.println("=====");
307     for(int i = 0; i < kelasX.size(); i++) {
308         System.out.println(kelasX.get(i));
309     } System.out.println("=====");
310 }
311 // Daftar Buku Kelas XI
312 static void kelasXI() {
313     ArrayList kelasXI = new ArrayList();
314     kelasXI.add("| Ekonomi Kelas XI");
315     kelasXI.add("| Geografi Kelas XI");
316     kelasXI.add("| Sejarah Kelas XI");
317     System.out.println("=====");
318     System.out.println("|    Daftar Buku Kelas XI    |");
319     System.out.println("=====");
320     for(int i = 0; i < kelasXI.size(); i++) {
321         System.out.println(kelasXI.get(i));
322     } System.out.println("=====");
323 }
324 // Daftar Buku Kelas XII
325 static void kelasXII() {
326     ArrayList kelasXII = new ArrayList();
327     kelasXII.add("| Matematika Kelas XII");
328     kelasXII.add("| PPkn Kelas XII");
329     kelasXII.add("| Seni Budaya Kelas XII");
330     System.out.println("=====");
331     System.out.println("|    Daftar Buku Kelas XII    |");
332     System.out.println("=====");
333     for(int i = 0; i < kelasXII.size(); i++) {
334         System.out.println(kelasXII.get(i));
335     } System.out.println("=====");
336 }
337 // Menu Baca & Pinjam Buku
338 static void bacapinjam() {
339     System.out.println("1. Baca buku");
340     System.out.println("2. Pinjam buku");
341     Scanner pilih = new Scanner(System.in);
342     System.out.print("> Pilih : ");
343     int menu = pilih.nextInt();

```

posttest3.Main bacapinjam menu

2009106109\_Asril\_Muhamad\_Fahroji

Source Packages

- posttest1
- posttest1\_double\_posttest
- posttest2
- posttest3
- Buku.java
- Main.java
- Siswa.java

ssProgram

Test Packages

Libraries

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AsrilMuhamadFahroji

Latihan

Praktikum

Tes

Siswa.java

Buku.java

Main.java

```

344         switch(menu) {
345             case 1:
346                 bacaBuku();
347                 menuUser();
348                 break;
349             case 2:
350                 pinjamBuku();
351                 menuUser();
352                 break;
353             default:
354                 System.out.println("Input salah");
355                 bacapinjam();
356                 break;
357         }
358     }
359     // Method Baca Buku
360     static void bacaBuku() {
361         Siswa nama = new Siswa("", 0, 0);
362         Buku baca = new Buku("", 0, 0, "");
363         Scanner nSiswa = new Scanner(System.in);
364         System.out.print("Nama siswa : ");
365         nama.setNama(nSiswa.nextLine());
366         Scanner kBuku = new Scanner(System.in);
367         System.out.print("Kode buku : ");
368         baca.setKodeBuku(kBuku.nextInt());
369         Scanner nBuku = new Scanner(System.in);
370         System.out.print("Nama buku : ");
371         baca.setNamaBuku(nBuku.nextLine());
372         Scanner jBuku = new Scanner(System.in);
373         System.out.print("Buku kelas : ");
374         baca.setKategoriBuku(jBuku.nextInt());
375         Scanner wBuku = new Scanner(System.in);
376         System.out.print("Warna buku : ");
377         baca.setWarnaBuku(wBuku.nextLine());
378
379         System.out.println("\n=====");
380         System.out.println("| Nama siswa : "+nama.getNama());
381         System.out.println("| Kode buku : "+baca.getKodeBuku());
382         System.out.println("| Nama buku : "+baca.getNamaBuku());
383         System.out.println("| Buku kelas : "+baca.getKategoriBuku());
384         System.out.println("| Warna buku : "+baca.getWarnaBuku());
385         System.out.println("=====");
386     }
387     // Method Pinjam Buku
388     static void pinjamBuku() {
389         Siswa siswa = new Siswa("", 0, 0);
390         Buku pinjam = new Buku("", 0, 0, "");
391         Scanner namaS = new Scanner(System.in);
392         System.out.print("Masukkan Nama siswa : ");
    
```

posttest3.Main

pinjamBuku



167.3/117.5MB

Projects Services Files

2009106109\_AsrilMuhamadFahroji

Source Packages

posttest1

posttest1\_double\_posttest

posttest2

posttest3

Buku.java

Main.java

Siswa.java

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Tes

Siswa.java

Buku.java

Main.java

Source History

```

392      System.out.print("Masukkan Nama siswa : ");
393      siswa.setNama(namaS.nextLine());
394      Scanner nisanS = new Scanner(System.in);
395      System.out.print("Masukkan NISN siswa : ");
396      siswa.setNisan(nisanS.nextInt());
397      Scanner kBuku = new Scanner(System.in);
398      System.out.print("Masukkan Kode buku : ");
399      pinjam.setKodeBuku(kBuku.nextInt());
400      Scanner nBuku = new Scanner(System.in);
401      System.out.print("Masukkan Nama buku : ");
402      pinjam.setNamaBuku(nBuku.nextLine());
403      Scanner jBuku = new Scanner(System.in);
404      System.out.print("Masukkan Buku kelas : ");
405      pinjam.setKategoriBuku(jBuku.nextInt());
406      Scanner wBuku = new Scanner(System.in);
407      System.out.print("Masukkan Warna buku : ");
408      pinjam.setWarnaBuku(wBuku.nextLine());
409
410      System.out.println("\n=====");
411      System.out.println("| Nama siswa : "+siswa.getNama());
412      System.out.println("| NISN siswa : "+siswa.getNisan());
413      System.out.println("| Kode buku : "+pinjam.getKodeBuku());
414      System.out.println("| Nama buku : "+pinjam.getNamaBuku());
415      System.out.println("| Buku kelas : "+pinjam.getKategoriBuku());
416      System.out.println("| Warna buku : "+pinjam.getWarnaBuku());
417      System.out.println("=====");
418  }
419  // List Pengunjung Perpustakaan
420  static void siswa() {
421      Siswa baru = new Siswa("", 0, 0);
422      baru.setNama("Asril");
423      baru.setNisan(100502);
424      baru.setKelas(10);
425
426      System.out.println("=====");
427      System.out.println("| Daftar Nama Pengunjung |");
428      System.out.println("=====");
429      System.out.println("Nama Siswa : "+baru.getNama());
430      System.out.println("NISN : "+baru.getNisan());
431      System.out.println("Kelas : "+baru.getKelas());
432      System.out.println();
433      menuAdmin();
434  }
435  public static void main(String[] args) {
436      do {
437          menuLogin();
438      } while(isRunning);
439  }
440  }

```

posttest3.Main

Siswa.java :

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```
package posttest3;

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

    public Siswa(String nama, int nisan, int kelas) {
        this.nama = nama;
        this.nisan = nisan;
        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 getNisan() {
        return nisan;
    }

    public void setNisan(int nisan) {
        this.nisan = nisan;
    }
}
```

Buku.java :

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```
package posttest3;

public class Buku {
    private String namaBuku;
    private int kodeBuku;
    private int kategoriBuku;
    private String warnaBuku;

    public Buku(String namaBuku, int kodeBuku, int kategoriBuku, String warnaBuku) {
        this.namaBuku = namaBuku;
        this.kodeBuku = kodeBuku;
        this.kategoriBuku = kategoriBuku;
        this.warnaBuku = warnaBuku;
    }

    public String getWarnaBuku() {
        return warnaBuku;
    }

    public void setWarnaBuku(String warnaBuku) {
        this.warnaBuku = warnaBuku;
    }

    public String getNamaBuku() {
        return namaBuku;
    }

    public void setNamaBuku(String namaBuku) {
        this.namaBuku = namaBuku;
    }

    public int getKodeBuku() {
        return kodeBuku;
    }

    public void setKodeBuku(int kodeBuku) {
        this.kodeBuku = kodeBuku;
    }

    public int getKategoriBuku() {
        return kategoriBuku;
    }

    public void setKategoriBuku(int kategoriBuku) {
        this.kategoriBuku = kategoriBuku;
    }
}
```