

SS Main.Java :

2009106109_Asril_Muhamad_Fahroji - Apache NetBeans IDE 12.3

File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help

The screenshot displays the Apache NetBeans IDE interface. On the left, the 'Projects' pane shows a project named '2009106109_Asril_Muhamad_Fahroji' with a 'Source Packages' folder containing 'posttest4'. Inside 'posttest4', there are several Java files, including 'Main.java' which is currently selected. The main editor window shows the code for 'Main.java'.

```
1 package posttest4;
2
3 import java.util.ArrayList;
4 import java.util.Scanner;
5
6 public class Main {
7     public static boolean isRunning = true;
8     // Menu Login
9     public 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     public 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();
```

283.0/404.0MB

Projects Services Files

2009106109_AsrilMuhamadFahroji

Source Packages

posttest1

posttest1_double_posttest

posttest2

posttest3

posttest4

Buku.java

Main.java

Siswa.java

bukuKelasX.java

bukuKelasXI.java

bukuKelasXII.java

ssProgram

Test Packages

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AsrilMuhamadFahroji

Latihan

Praktikum

Tes

Main.java

```

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  // 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          loginAdmin();
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:

```

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Main.java

```

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

```

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Main.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 Overriding
164 bukuKelasX edit = new bukuKelasX("", 0, "", 0);
165 System.out.println("\nEdit Buku");
166 Scanner index = new Scanner(System.in);
167 System.out.print("Masukkan No. Buku : ");
168 nol = index.nextInt();
169 System.out.print("Masukkan Judul Baru : ");
170 kelasX.set(nol, 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=====");

```

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Main.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 Overriding
211      bukuKelasXI edit = new bukuKelasXI("", 0, "", 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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Main.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 Overriding
258 bukuKelasXII edit = new bukuKelasXII("", 0, "", 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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Source History

```

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     Siswa nama = new 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             {

```

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Source Packages

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Main.java

```

344     bukuKelasX bacaX = new bukuKelasX("", 0, "", 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     bukuKelasXI bacaXI = new bukuKelasXI("", 0, "", 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     bukuKelasXII bacaXII = new bukuKelasXII("", 0, "", 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     Siswa siswa = new Siswa("", 0, 0);
391     System.out.println("\n=====");
392     Scanner namaS = new Scanner(System.in);

```


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```

393      System.out.print("Masukkan Nama siswa : ");
394      siswa.setNama(namaS.nextLine());
395      Scanner nisanS = new Scanner(System.in);
396      System.out.print("Masukkan NISN siswa : ");
397      siswa.setNisan(nisanS.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          bukuKelasX pinjamX = new bukuKelasX("", 0, "", 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.getNisan());
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          bukuKelasXI pinjamXI = new bukuKelasXI("", 0, "", 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.getNisan());
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          bukuKelasXII pinjamXII = new bukuKelasXII("", 0, "", 0);
439          Scanner bukuXII = new Scanner(System.in);
440          System.out.print("Masukkan Nama Buku : ");
441          pinjamXII.setJudulXII(bukuXII.nextLine());

```

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```

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     Siswa baru = new 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 }

```

SS Siswa.Java :

2009106109_Asril_Muhamad_Fahroji - Apache NetBeans IDE 12.3

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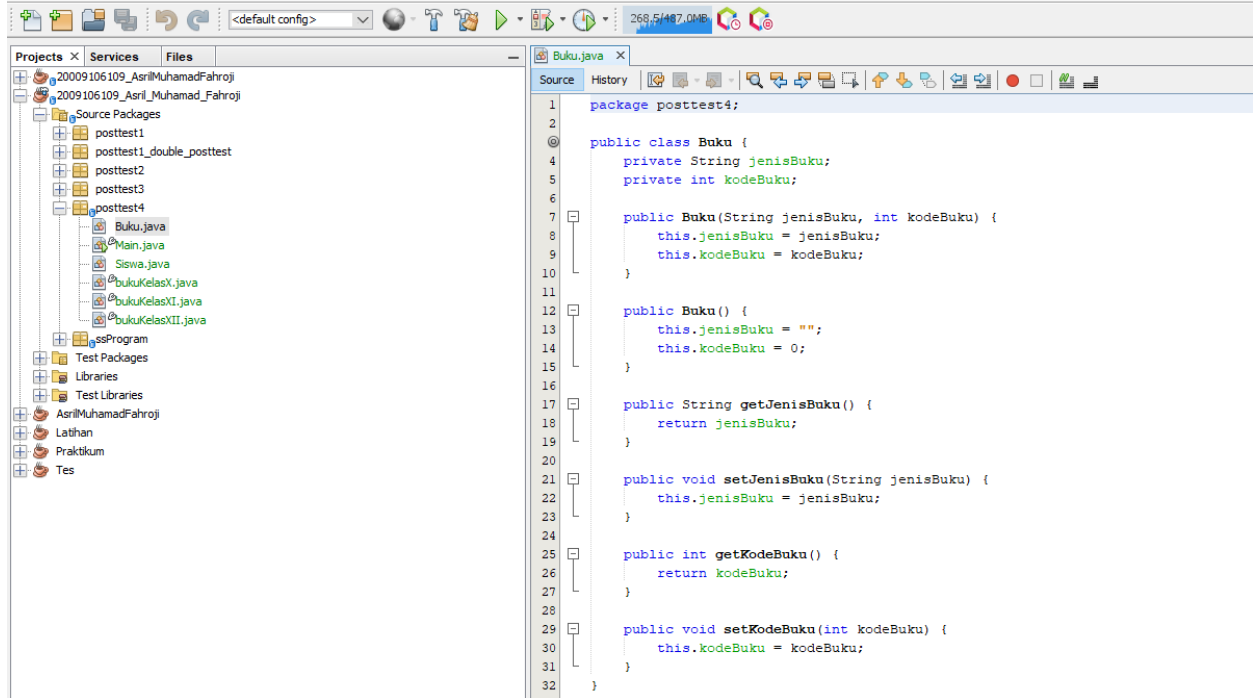
The screenshot displays the Apache NetBeans IDE interface. On the left, the 'Projects' pane shows a project named '2009106109_Asril_Muhamad_Fahroji' with a sub-package 'Source Packages'. Inside 'Source Packages', there are several test classes (posttest1 through posttest4) and a 'ssProgram' package containing 'Buku.java', 'Main.java', 'Siswa.java', 'bukuKelasX.java', and 'bukuKelasXII.java'. The 'Siswa.java' file is selected and its source code is displayed in the main editor window on the right.

```
1 package posttest4;
2
3 public class Siswa {
4     private String nama;
5     private int nisp;
6     private int kelas;
7
8     public Siswa(String nama, int nisp, int kelas) {
9         this.nama = nama;
10        this.nisp = nisp;
11        this.kelas = kelas;
12    }
13
14    public int getKelas() {
15        return kelas;
16    }
17
18    public void setKelas(int kelas) {
19        this.kelas = kelas;
20    }
21
22    public String getNama() {
23        return nama;
24    }
25
26    public void setNama(String nama) {
27        this.nama = nama;
28    }
29
30    public int getNisp() {
31        return nisp;
32    }
33
34    public void setNisp(int nisp) {
35        this.nisp = nisp;
36    }
37 }
38
```

SS Buku.Java :

2009106109_Asril_Muhamad_Fahroji - Apache NetBeans IDE 12.3

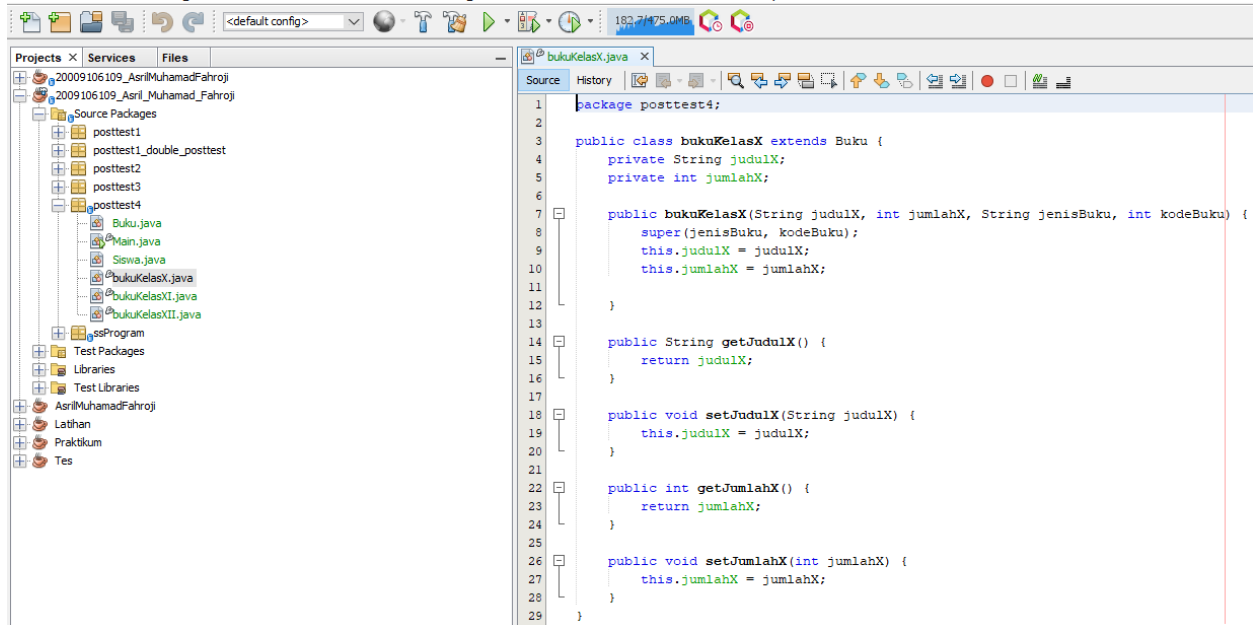
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SS bukuKelasX.Java :

2009106109_Asril_Muhamad_Fahroji - Apache NetBeans IDE 12.3

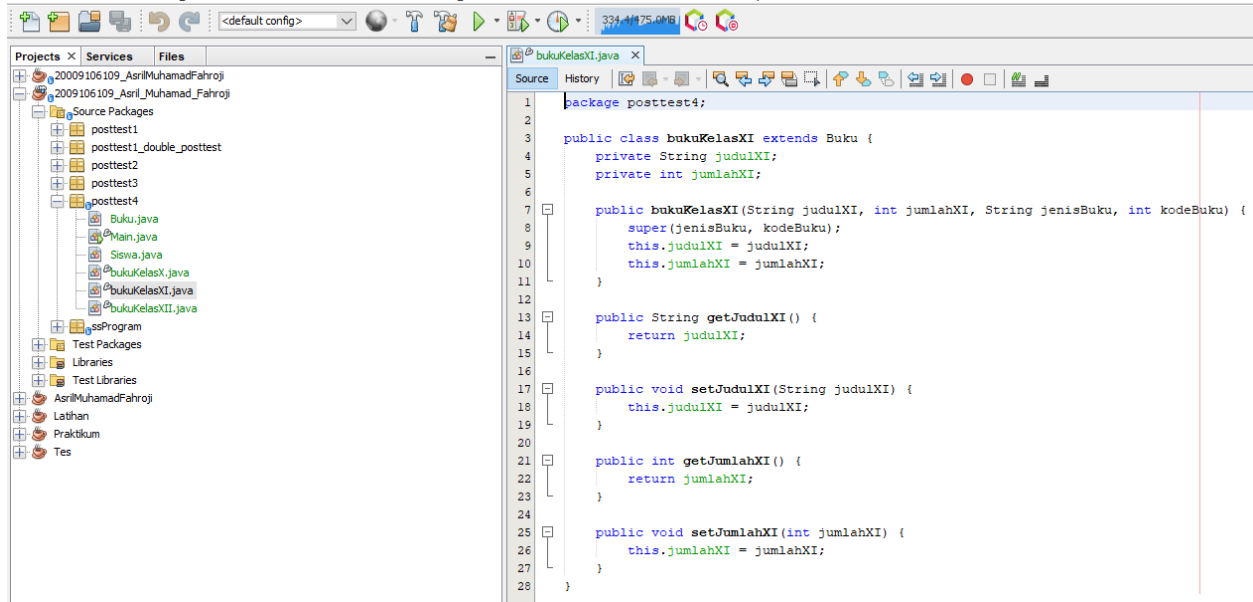
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SS bukuKelasXI.Java :

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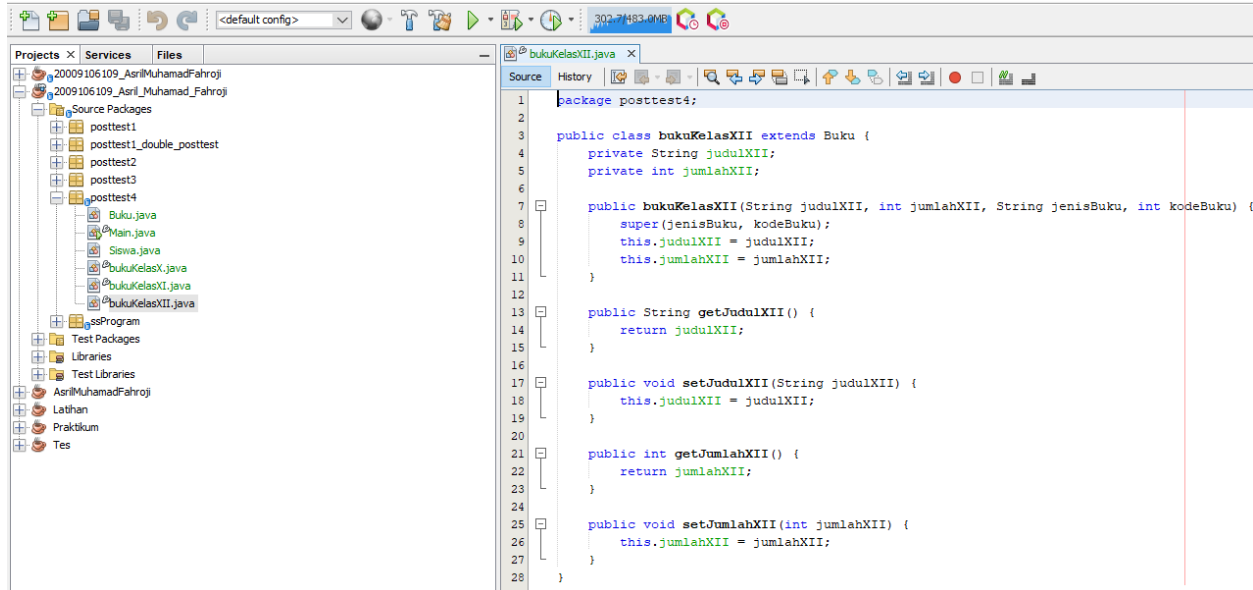


```
1 package posttest4;
2
3 public class bukuKelasXI extends Buku {
4     private String judulXI;
5     private int jumlahXI;
6
7     public bukuKelasXI(String judulXI, int jumlahXI, String jenisBuku, int kodeBuku) {
8         super(jenisBuku, kodeBuku);
9         this.judulXI = judulXI;
10        this.jumlahXI = jumlahXI;
11    }
12
13    public String getJudulXI() {
14        return judulXI;
15    }
16
17    public void setJudulXI(String judulXI) {
18        this.judulXI = judulXI;
19    }
20
21    public int getJumlahXI() {
22        return jumlahXI;
23    }
24
25    public void setJumlahXI(int jumlahXI) {
26        this.jumlahXI = jumlahXI;
27    }
28 }
```

SS bukuKelasXII.Java :

2009106109_Asril_Muhamad_Fahroji - Apache NetBeans IDE 12.3

File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help



```
1 package posttest4;
2
3 public class bukuKelasXII extends Buku {
4     private String judulXII;
5     private int jumlahXII;
6
7     public bukuKelasXII(String judulXII, int jumlahXII, String jenisBuku, int kodeBuku) {
8         super(jenisBuku, kodeBuku);
9         this.judulXII = judulXII;
10        this.jumlahXII = jumlahXII;
11    }
12
13    public String getJudulXII() {
14        return judulXII;
15    }
16
17    public void setJudulXII(String judulXII) {
18        this.judulXII = judulXII;
19    }
20
21    public int getJumlahXII() {
22        return jumlahXII;
23    }
24
25    public void setJumlahXII(int jumlahXII) {
26        this.jumlahXII = jumlahXII;
27    }
28 }
```