**Tugas Pertama**

1. Melanjutkan program studi kasus dan menambahkan ArrayList dan Entity !

**Source Code**

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| 1. **package** main; 3. **public** **class** dosen { 4. String nama, nip; 5. **public dosen(String nama, String nip){** 6. **this**.nama = nama; 7. **this**.nip = nip; 8. } 9. **public** String getNama(){ 10. **return nama;** 11. } 12. **public** String getNip(){ 13. **return** nip; 14. } 16. } |

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| 1. **package** main; 2. **import** java.util.Date; 4. **public** **class** akun { 5. **String nama, npm, nomor, password, kelas, hari, sesi, waktu;** 6. Date tanggalLahir; 7. **int** indexdosen,indexkursus; 9. **public** akun(String nama, String npm, String nomor, String password, Date tanggalLahir, String kelas, String hari, String sesi, String waktu, **int** indexdosen, **int** indexkursus) { 10. **this.nama = nama;** 11. **this**.npm = npm; 12. **this**.nomor = nomor; 13. **this**.password = password; 14. **this**.kelas = kelas; 15. **this.hari = hari;** 16. **this**.sesi = sesi; 17. **this**.waktu = waktu; 18. **this**.tanggalLahir = tanggalLahir; 19. **this**.indexdosen = indexdosen; 20. **this.indexkursus = indexkursus;** 21. } 23. **public** String getNama() { 24. **return** nama; 25. **}** 27. **public** **void** setNama(String nama) { 28. **this**.nama = nama; 29. } 31. **public** String getNpm() { 32. **return** npm; 33. } 35. **public void setNpm(String npm) {** 36. **this**.npm = npm; 37. } 39. **public** String getNomor() { 40. **return nomor;** 41. } 43. **public** **void** setNomor(String nomor) { 44. **this**.nomor = nomor; 45. **}** 47. **public** String getPassword() { 48. **return** password; 49. } 51. **public** **void** setPassword(String password) { 52. **this**.password = password; 53. } 55. **public String getKelas() {** 56. **return** kelas; 57. } 59. **public** **void** setKelas(String kelas) { 60. **this.kelas = kelas;** 61. } 63. **public** String getHari() { 64. **return** hari; 65. **}** 67. **public** **void** setHari(String hari) { 68. **this**.hari = hari; 69. } 71. **public** String getSesi() { 72. **return** sesi; 73. } 75. **public void setSesi(String sesi) {** 76. **this**.sesi = sesi; 77. } 79. **public** String getWaktu() { 80. **return waktu;** 81. } 83. **public** **void** setWaktu(String waktu) { 84. **this**.waktu = waktu; 85. **}** 87. **public** Date getTanggalLahir() { 88. **return** tanggalLahir; 89. } 91. **public** **void** setTanggalLahir(Date tanggalLahir) { 92. **this**.tanggalLahir = tanggalLahir; 93. } 95. **public int getIndexdosen() {** 96. **return** indexdosen; 97. } 99. **public** **void** setIndexdosen(**int** indexdosen) { 100. **this.indexdosen = indexdosen;** 101. } 103. **public** **int** getIndexkursus() { 104. **return** indexkursus; 105. **}** 107. **public** **void** setIndexkursus(**int** indexkursus) { 108. **this**.indexkursus = indexkursus; 109. } 110. } |

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| 1. **package** main; 2. **public** **class** listkursus { 3. **static** String[] Kursus = {"Website", "Mechine learning", "Aplikasi"}; 4. } |

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| 1. **package** main; 3. **import** java.util.ArrayList; 4. **import** java.text.SimpleDateFormat; 5. **import java.util.Date;** 6. **import** java.util.Scanner; 8. **public** **class** main { 9. **static** ArrayList<dosen> dataDosen = **new** ArrayList(); 10. **static ArrayList<akun> dataAkun = new ArrayList();** 11. **static** Scanner in = **new** Scanner(System.in); 13. **public** **static** **void** main(String[]args){ 14. System.out.println("Selamat Datang di Program Kursus ITATS : "); 15. **int pil;** 16. dataDosen(); 17. **do**{ 18. System.out.println("Pilihan :"); 19. System.out.println("-------------------------"); 20. **System.out.println("1. Daftar akun ");** 21. System.out.println("2. Login "); 22. System.out.println("3. exit"); 23. System.out.println("-------------------------"); 24. System.out.print("Masukkan Pilihan : "); 25. **pil = in.nextInt();** 26. **switch**(pil){ 27. **case** 1 : 28. daftar\_akun(); 29. **break**; 30. **case 2 :** 31. System.out.print("NPM : "); 32. String npm = in.next(); 33. System.out.print("Password : "); 34. String password = in.next(); 35. **view(npm, password);** 36. **break**; 37. **case** 3 : 38. System.out.println("Terimakasih telah mengunkungi program kami"); 39. **break**; 40. **}** 41. }**while**(pil != 3); 42. } 44. **static** **void** daftar\_akun(){ 45. **System.out.print("Nama : ");** 46. String nama = in.next(); 47. System.out.print("NPM : "); 48. String npm = in.next(); 49. System.out.print("Nomor Handphone : "); 50. **String nomor = in.next();** 51. System.out.print("Password : "); 52. String password = in.next(); 53. System.out.print("Tanggal Lahir (mm/dd/yyyy) : "); 54. Date tanggalLahir = **new** Date(in.next()); 55. **System.out.print("Kelas : ");** 56. String kelas = in.next(); 57. System.out.print("Hari : "); 58. String hari = in.next(); 59. System.out.print("Sesi : "); 60. **String sesi = in.next();** 61. System.out.print("Waktu : "); 62. String waktu = in.next(); 63. System.out.println("------------------"); *//pilih dosen* 64. System.out.println("List Dosen : "); 65. **System.out.println("------------------");** 66. **for**(**int** i = 0; i < dataDosen.size(); i++){ 67. System.out.println(i + "." + dataDosen.get(i).nama); 68. } 69. System.out.print("Pilih Dosen : "); 70. **int indexdosen = in.nextInt();** 71. System.out.println("------------------"); *//pilih kursus* 72. System.out.println("List Kursus : "); 73. System.out.println("------------------"); 74. **for**(**int** i = 0; i < listkursus.Kursus.length; i++){ 75. **System.out.println(i + "." + listkursus.Kursus[i]);** 76. } 77. System.out.print("Pilih Kursus : "); 78. **int** indexkursus = in.nextInt(); 79. dataAkun.add(**new** akun(nama, npm, nomor, password, tanggalLahir, kelas, hari, sesi, waktu,indexdosen,indexkursus)); 80. ***// dataAkun.add(new akun(nama, npm, nomor, password, tanggalLahir, kelas, hari, sesi, waktu, indexdosen, indexkursus));*** 81. } 83. **static** **void** view(String npm, String password) { 84. **for**(**int** i = 0; i < dataAkun.size(); i++){ 85. **if(npm.equals(dataAkun.get(i).getNpm()) && password.equals(dataAkun.get(i).getPassword())){** 86. System.out.println("--------------------------"); 87. System.out.println("Data Diri : "); 88. System.out.println("--------------------------"); 89. System.out.println("Nama : " + dataAkun.get(i).getNama()); 90. **System.out.println("NPM : " + dataAkun.get(i).getNpm());** 91. System.out.println("Tanggal Lahir : " + **new** SimpleDateFormat("dd-mm-yyyy").format(dataAkun.get(i).getTanggalLahir())); 92. System.out.println("Nomor Handphone : " + dataAkun.get(i).getNomor()); 93. System.out.println("Kelas : " + dataAkun.get(i).getKelas()); 94. System.out.println("Hari : " + dataAkun.get(i).getHari()); 95. **System.out.println("Sesi : " + dataAkun.get(i).getSesi());** 96. System.out.println("Waktu : " + dataAkun.get(i).getWaktu()); 97. System.out.println("Nama Dosen : " + dataDosen.get(dataAkun.get(i).indexdosen).getNama()); 98. System.out.println("NIP Dosen : " + dataDosen.get(i).getNip()); 99. System.out.println("Kursus : " + listkursus.Kursus[dataAkun.get(i).indexkursus]); 100. **System.out.println("---------------------------");** 101. }**else**{ 102. System.out.println("NPM atau Password anda salah"); 103. } 104. } 105. **}** 107. **static** **void** dataDosen(){ 108. String nama[] = {"Farida", "Andy Rahcman", "Kurniawan"}; 109. String nip[] = {"01", "02", "03"}; 110. **for(int i =0; i < nama.length; i++){** 111. dataDosen.add(**new** dosen(nama[i], nip[i])); 112. } 113. } 114. } |

**Output Program**

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