**Tugas Pertama**

***Penerapan Constructor dengan parameter, ArrayList, Fitur Login, dan CRUD (Create, Read,update,delete)***

**Source Code**

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| 1. **public** **class** Main { 2. **public** **static** **void** main(String[] args) **throws** Exception { 3. CRUD obj1 = **new** CRUD(); 4. obj1.Pilih(); 5. **}** 6. } 7. **import** java.util.Scanner; 8. **import** java.util.ArrayList; 9. **public** **class** CRUD { 10. **Scanner inp = new Scanner(System.in);** 11. **public** **int** pilih; 12. data dataKursus = **new** data(); 13. ArrayList<data> arr = **new** ArrayList<data>(); 14. **public** **int** inpDatakursus; 15. **public String Fname , Lname , Alamat, Tanggal ;** 16. **public** String pw , telp; 17. *//getter* 18. **public** String getAlamat() { 19. **return** Alamat; 20. **}** 21. **public** String getFname() { 22. **return** Fname; 23. } 24. **public** String getLname() { 25. **return Lname;** 26. } 27. **public** String getTanggal() { 28. **return** Tanggal; 29. } 30. **public String getPw() {** 31. **return** pw; 32. } 33. **public** String getTelp() { 34. **return** telp; 35. **}** 36. ArrayList<CRUD> arrDataStrings = **new** ArrayList<CRUD>(); 37. **public** **void** Pilih(){ 38. **do** { 39. System.out.println("**\n** Kursus Coding ESA.com"); 40. **System.out.println("=======================");** 41. System.out.println("1. Daftar Akun"); 42. System.out.println("2. Login "); 43. System.out.println("3. Edit "); 44. System.out.println("4. Hapus"); 45. **System.out.println("5. Exit");** 46. System.out.print("pilih : "); 47. pilih = inp.nextInt(); 48. **switch** (pilih){ 49. **case** 1: 50. **Daftar();** 51. display(); 52. **break**; 53. **case** 2: 54. Login(); 55. **break;** 56. **case** 3: 57. update(); 58. display(); 59. **break**; 60. **case 4:** 61. } 62. } **while** (pilih != 5); 63. } 64. **public** **void** Daftar(){ 65. **System.out.println("=========================================");** 66. System.out.println("Daftar Akun kursus **\n**"); 67. System.out.print("nama depan : "); 68. Fname = inp.next(); 69. Fname = getFname(); 70. **System.out.print("nama belakang : ");** 71. Lname = inp.next(); 72. Lname = getLname(); 73. System.out.print("Alamat : "); 74. Alamat = inp.next(); 75. **Alamat = getAlamat();** 76. System.out.print("No telp : "); 77. telp = inp.next(); 78. telp = getTelp(); 79. System.out.print("Password : "); 80. **pw = inp.next();** 81. pw = getPw(); 82. } 83. **public** **void** display() { 84. **for** (**int** i = 0; i <= arrDataStrings.size() ; i++){ 85. **System.out.println("=========================================");** 86. System.out.println("Daftar Kursus di Kursus ESA : **\n**"); 87. dataKursus.kursusJava(); 88. dataKursus.kursusPhyton(); 89. dataKursus.kursusJavaScript(); 90. **System.out.print("pilih kursus : ");** 91. inpDatakursus = inp.nextInt(); 92. System.out.println("**\n**AKUN ANDA BERHASIL DIBUAT"); 93. System.out.println("============================="); 94. System.out.println("nama depan : " + getFname()+ " " + getLname()); 95. **System.out.println("Alamat : " + getAlamat());** 96. System.out.println("No telp : " + getTelp()); 97. **if**(inpDatakursus == 1){ 98. System.out.println("kursus : " + dataKursus.getJava()); 99. } 100. **else if (inpDatakursus == 2 ){** 101. System.out.println("kursus : " + dataKursus.getPhyton()); 102. } 103. **else** **if** (inpDatakursus == 3 ){ 104. System.out.println("kursus : " + dataKursus.getJavascript()); 105. **}** 106. System.out.println("============================="); 107. } 108. } 109. **public** **void** Login() { 110. **String login;** 111. String pwS; 112. System.out.println("========================================="); 113. System.out.println("Login akun kursus di kursus ESA "); 114. System.out.print("nama depan : "); 115. **login = inp.next();** 116. System.out.print("Password : "); 117. pwS = inp.next(); 118. **if** (login.equals(getFname())){ 119. **if**(pwS.equals(getPw())){ 120. **System.out.println("ANDA SUDAH LOGIN");** 121. System.out.println("============================="); 122. System.out.println("nama depan : " + getFname()+ " " + getLname()); 123. System.out.println("Alamat : " + getAlamat()); 124. System.out.println("No telp : " + getTelp()); 125. **if(inpDatakursus == 1){** 126. System.out.println("kursus : " + dataKursus.getJava()); 127. } 128. **else** **if** (inpDatakursus == 2 ){ 129. System.out.println("kursus : " + dataKursus.getPhyton()); 130. **}** 131. **else** **if** (inpDatakursus == 3 ){ 132. System.out.println("kursus : " + dataKursus.getJavascript()); 133. } 134. System.out.println("============================="); 135. **}** } 136. } 137. **public** **void** update (){ 138. String login; 139. **String pwS;** 140. System.out.print("nama depan : "); 141. login = inp.next(); 142. System.out.print("Password : "); 143. pwS = inp.next(); 144. **if (login.equals(getFname()) && pwS == getPw()){** 145. dataKursus.kursusJavaScript(); 146. System.out.print("pilih kursus : "); 147. inpDatakursus = inp.nextInt(); 148. System.out.print("nama depan : "); 149. **Fname = inp.next();** 150. Fname = getFname(); 151. System.out.print("nama belakang : "); 152. Lname = inp.next(); 153. Lname = getLname(); 154. **System.out.print("Alamat : ");** 155. Alamat = inp.next(); 156. Alamat = getAlamat(); 157. System.out.print("No telp : "); 158. telp = inp.next(); 159. **telp = getTelp();** 160. System.out.print("Password : "); 161. pw = inp.next(); 162. pw = getPw(); 163. } 164. **}** 166. } 168. **public** **class** data { 169. **public String java = "kursus coding Java";** 170. **public** String phyton = "kursus coding Phyton"; 171. **public** String javascript = "kursus coding Javascript"; 172. **public** String getJava() { 173. **return** java; 174. **}** 175. **public** String getPhyton() { 176. **return** phyton; 177. } 178. **public** String getJavascript() { 179. **return javascript;** 180. } 181. **public** **void** kursusJava() { 182. System.out.println("============================="); 183. System.out.println("1. " + getJava()); 184. **}** 185. **public** **void** kursusPhyton(){ 186. System.out.println("2. " + getPhyton()); 187. } 188. **public** **void** kursusJavaScript(){ 189. **System.out.println("3. " + getJavascript());** 190. System.out.println("============================="); 191. } 192. } |

**Output Program**

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