**Tugas Pertama**Buatlah package menurut study kasus anda dengan sesuai denga isi class masing-masing !

**Jawaban**

**Source Code**

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| 1. **package** MainClass; 3. **import** Entity.Entity\_Data;  6. **import** java.util.Scanner; 8. **public** **class** Main { 9. **public** **static** **void** main(String[] args) **throws** Exception { 10. Entity\_Data obj1 = **new** Entity\_Data(); 11. Scanner inp = **new** Scanner(System.in); 12. **do** { 13. System.out.println("Menu Pilihan"); 14. System.out.println("1. Daftar Akun"); 15. System.out.println("2. Login "); 16. System.out.println("3. Edit "); 17. System.out.println("4. Hapus"); 18. System.out.println("5. lihat "); 19. System.out.println("6. Exit"); 20. System.out.print("pilih : "); 21. obj1.pilih = inp.nextInt(); 22. **switch** (obj1.pilih){ 23. **case** 1: 24. obj1.Daftar(); 25. **break**; 26. **case** 2: 27. obj1.Login(); 28. **break**; 29. **case** 3: 30. obj1.Update(); 31. **break**; 32. **case** 4: 33. obj1.delete(); 34. **break**; 35. **case** 5: 36. obj1.display(); 37. } 38. } **while** (obj1.pilih != 6); 39. } 40. } 42. **package** Entity; 44. **import** Data.data1; 45. **import** Data.data2; 47. **import** java.util.Scanner; 48. **import** java.util.ArrayList; 49. **public** **class** Entity\_Data { 50. Scanner inp = **new** Scanner(System.in); 51. **public** **int** pilih; 52. ArrayList<data1> arr = **new** ArrayList<>(); 53. ArrayList<data2> arrReg = **new** ArrayList<>(); 54. **int** idxLogin; 55. **public** **int** inpDatakursus; 56. **public** String Fname , Lname , Alamat, Tanggal ; 57. **public** String pw , telp; 58. **public** **boolean** log = **false** ; 59. *//getter* 60. **public** String getAlamat() { 61. **return** Alamat; 62. } 63. **public** String getFname() { 64. **return** Fname; 65. } 66. **public** String getLname() { 67. **return** Lname; 68. } 69. **public** String getTanggal() { 70. **return** Tanggal; 71. } 72. **public** String getPw() { 73. **return** pw; 74. } 75. **public** String getTelp() { 76. **return** telp; 77. } 79. **public** **void** Update(){ 80. **if** (log == **true**){ 81. System.out.println("**\n**SISTEM EDIT**\n**"); 82. System.out.println("akun " + arrReg.get(idxLogin).getFnama() + " " + arrReg.get(idxLogin).getLname() + " yang akan diedit"); 83. System.out.println("============================="); 84. System.out.print("nama depan : "); 85. Fname = inp.next(); 86. Fname = getFname(); 87. System.out.print("nama belakang : "); 88. Lname = inp.next(); 89. Lname = getLname(); 90. System.out.print("Alamat : "); 91. Alamat = inp.next(); 92. Alamat = getAlamat(); 93. System.out.print("No telp : "); 94. telp = inp.next(); 95. telp = getTelp(); 96. System.out.print("Password : "); 97. pw = inp.next(); 98. pw = getPw(); 99. viewDatakursus(); 100. System.out.print("pilih kursus : "); 101. inpDatakursus = inp.nextInt(); 102. System.out.println("============================="); 103. System.out.println("nama lengkap : " + getFname()+ " " + getLname()); 104. System.out.println("Alamat : " + getAlamat()); 105. System.out.println("No telp : " + getTelp()); 106. **if**(inpDatakursus == 1){ 107. System.out.println("kursus : " + arr.get(inpDatakursus - 1).getKursus()); 108. } 109. **else** **if** (inpDatakursus == 2 ){ 110. System.out.println("kursus : " + arr.get(inpDatakursus - 1).getKursus()); 111. } 112. **else** **if** (inpDatakursus == 3 ){ 113. System.out.println("kursus : " + arr.get(inpDatakursus - 1).getKursus()); 114. }System.out.println("============================="); 116. arrReg.set(idxLogin, **new** data2(Fname, Lname, Alamat, telp, pw, inpDatakursus)); 117. }**else** **if**(log == **false**){ 118. System.out.println("LOGIN terlebih dahulu yaa hehe"); 119. }**else** **if**(arrReg.isEmpty()){ 120. System.out.println("DAFTAR DULU WOE"); 121. } 122. } 124. **public** **void** Daftar(){ 125. System.out.println("========================================="); 126. System.out.println("Daftar Akun kursus **\n**"); 127. System.out.print("nama depan : "); 128. Fname = inp.next(); 129. Fname = getFname(); 130. System.out.print("nama belakang : "); 131. Lname = inp.next(); 132. Lname = getLname(); 133. System.out.print("Alamat : "); 134. Alamat = inp.next(); 135. Alamat = getAlamat(); 136. System.out.print("No telp : "); 137. telp = inp.next(); 138. telp = getTelp(); 139. System.out.print("Password : "); 140. pw = inp.next(); 141. pw = getPw(); 142. dataKursus(); 143. viewDatakursus(); 144. System.out.print("pilih kursus : "); 145. inpDatakursus = inp.nextInt(); 146. arrReg.add(**new** data2(Fname, Lname, Alamat, telp, pw,inpDatakursus)); 147. System.out.println("**\n**AKUN ANDA BERHASIL DIBUAT"); 148. System.out.println("============================="); 149. System.out.println("nama lengkap : " + getFname()+ " " + getLname()); 150. System.out.println("Alamat : " + getAlamat()); 151. System.out.println("No telp : " + getTelp()); 152. **if**(inpDatakursus == 1){ 153. System.out.println("kursus : " + arr.get(inpDatakursus - 1).getKursus()); 154. } 155. **else** **if** (inpDatakursus == 2 ){ 156. System.out.println("kursus : " + arr.get(inpDatakursus - 1).getKursus()); 157. } 158. **else** **if** (inpDatakursus == 3 ){ 159. System.out.println("kursus : " + arr.get(inpDatakursus - 1).getKursus()); 160. } 161. } 163. **public** **void** viewDatakursus(){ 164. System.out.println("1. " + arr.get(0).getKursus()); 165. System.out.println("2. " + arr.get(1).getKursus()); 166. System.out.println("3. " + arr.get(2).getKursus()); 167. } 168. **public** **void** display() { 169. **if**(arrReg.isEmpty() == **false**){ 170. **for**(**int** i = 0 ; i < arrReg.size() ; i++){ 171. System.out.println("account ke-" + (i+1)); 172. System.out.println("============================="); 173. System.out.println("Nama lengkap : " + arrReg.get(i).getFnama()+ " " + arrReg.get(i).getLname()); 174. System.out.println("Alamat : " + arrReg.get(i).getAddrs()); 175. System.out.println("No telp : " + arrReg.get(i).getNotlp()); 176. **if**(inpDatakursus == 1){ 177. System.out.println("kursus : " + arr.get(inpDatakursus - 1).getKursus()); 178. } 179. **else** **if** (inpDatakursus == 2 ){ 180. System.out.println("kursus : " + arr.get(inpDatakursus - 1).getKursus()); 181. } 182. **else** **if** (inpDatakursus == 3 ){ 183. System.out.println("kursus : " + arr.get(inpDatakursus - 1).getKursus()); 184. }System.out.println("============================="); 185. } 186. } 187. **else** **if** (arrReg.isEmpty() == **true**){ 188. System.out.println("**\n**TIDAK ADA AKUN YANG DIISI"); 189. System.out.println("KOSONG"); 190. } 191. } 192. **public** **int** l; 193. **public** **void** Login() { 194. String login; 195. String pwS; 196. System.out.print("nama depan : "); 197. login = inp.next(); 198. System.out.print("Password : "); 199. pwS = inp.next(); 200. **if** (arrReg.isEmpty()){ 201. System.out.println("Anda Belum Daftar"); 202. } 203. **for**( l = 0 ; l < arrReg.size(); l++){ 204. **if** (login.equals(arrReg.get(l).getFnama()) && pwS.equals(arrReg.get(l).getPw())){ 205. { 206. System.out.println("**\n**--ANDA SUDAH LOGIN--"); 207. System.out.println("============================="); 208. System.out.println("nama lengkap : " + arrReg.get(l).getFnama()+ " " + arrReg.get(l).getLname()); 209. System.out.println("Alamat : " + arrReg.get(l).getAddrs()); 210. System.out.println("No telp : " + arrReg.get(l).getNotlp()); 211. System.out.println("kursus : " + arr.get(inpDatakursus-1).getKursus()); 212. log = **true**; 213. idxLogin = l; 214. } 216. }**else** **if**(login != arrReg.get(l).getFnama() && pwS != arrReg.get(l).getPw()){ 217. System.out.println("data yang anda masukkan salah"); 218. } 219. } 220. } 221. **public** **void** delete(){ 222. **if** (log == **true**){ 223. System.out.println("============================="); 224. System.out.println("ini adalah sistem DELETE"); 225. System.out.println("apakah anda ingin menghapus akun " + arrReg.get(idxLogin).getFnama() 226. + " " + arrReg.get(idxLogin).getLname() + " (y/t)?"); 227. String y = inp.next(); 228. **if** (y.equals("y")){ 229. arrReg.remove(idxLogin); 230. }**else** **if**(y.equals("t")){ 231. System.out.println("Cancelled"); 232. } 233. }**else** **if** (log == **false**){ 234. System.out.println("Daftar terlebih dahulu"); 235. }**else** **if**(arrReg.isEmpty()){ 236. System.out.println("Daftar telebih dahulu"); 237. } 238. } 239. **public** **void** dataKursus(){ 240. **int** i; 241. String dataK[] = {"Matematika" , "Fisika" , "Kimia"}; 242. **for** ( i = 0 ; i < dataK.length ; i++){ 243. arr.add(**new** data1(dataK[i])); 244. } 245. } 246. } 248. **package** Data;  251. **public** **class** data1 { 252. String kursus; 253. **public** data1(String kursus){ 254. **this**.kursus = kursus; 255. } 256. **public** String getKursus() { 257. **return** kursus; 258. } 259. } 261. **package** Data;  264. **public** **class** data2 **extends** induk { 265. **public** data2(String fname , String lnama , String adres , String tlp , 266. String pw , **int** inpdtkrs ){ 267. **super**.fnama = fname; 268. **super**.lname = lnama; 269. **super**.addrs = adres; 270. **super**.notlp = tlp; 271. **super**.pw = pw; 272. **super**.inpdtkrs = inpdtkrs; 273. } 274. **public** String getAddrs() { 275. **return** addrs; 276. } 277. **public** String getFnama() { 278. **return** fnama; 279. } 280. **public** **int** getInpdtkrs() { 281. **return** inpdtkrs; 282. } 283. **public** String getLname() { 284. **return** lname; 285. } 286. **public** String getNotlp() { 287. **return** notlp; 288. } 289. **public** String getPw() { 290. **return** pw; 291. } 292. } 293. **class** induk { 294. **public** String fnama , lname , addrs , notlp , pw ; 295. **public** **int** inpdtkrs; 296. } |

**Output Program**

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