**LAPORAN RESMI**

**Workshop Kecerdasan Buatan**

Sistem Pakar



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**TEKNIK INFORMATIKA**

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**Sistem Pakar penyakit Gastro Usus**

* **Source Code**

|  |
| --- |
| import java.util.Scanner;    public class GastroUsus{  public static void main(String arg[]){  float[][][] arraycase = new float[5][15][25];  float temp;  Scanner keyboard = new Scanner(System.in);  System.out.println("==========================================================================");  System.out.println("Infeksi Sistem Gastro Usus\nMasukkan Input 1 untuk jawaban 'Yes' atau 2 untuk jawaban 'No'");  System.out.print("1. Buang Air Besar (lebih dari 2 kali) : ");  temp = keyboard.nextFloat();  if(temp == 1){  arraycase[0][0][0] = 1;  arraycase[1][0][0] = 1;  arraycase[2][0][0] = 1;  arraycase[4][0][0] = 1;  }  System.out.print("2. Berak Encer? : ");  temp = keyboard.nextFloat();  if(temp == 1){  arraycase[0][0][1] = 1;  arraycase[1][0][1] = 1;  arraycase[2][0][1] = 1;  arraycase[4][0][1] = 1;  }  System.out.print("3. Berak Berdarah? : ");  temp = keyboard.nextFloat();  if(temp == 1){  arraycase[4][0][2] = 1;  }  System.out.print("4. Lesu dan tidak bergairah? : ");  temp = keyboard.nextFloat();  if(temp == 1){  arraycase[0][0][2] = 1;  arraycase[0][1][0] = 1;  arraycase[0][2][0] = 1;  arraycase[0][3][0] = 1;    arraycase[1][0][2] = 1;  arraycase[1][1][0] = 1;  arraycase[1][2][0] = 1;    arraycase[2][0][2] = 1;  arraycase[2][1][0] = 1;  arraycase[2][2][0] = 1;  arraycase[2][3][0] = 1;  arraycase[2][4][0] = 1;    arraycase[3][0][0] = 1;  arraycase[3][1][0] = 1;    arraycase[4][0][3] = 1;  arraycase[4][1][0] = 1;  arraycase[4][2][0] = 1;  }  System.out.print("5. Tidak Selera Makan? : ");  temp = keyboard.nextFloat();  if(temp == 1){  arraycase[0][0][3] = 1;  arraycase[0][1][1] = 1;    arraycase[1][0][3] = 1;  arraycase[1][1][1] = 1;    arraycase[2][0][3] = 1;  arraycase[2][1][1] = 1;  arraycase[2][3][1] = 1;    arraycase[3][0][1] = 1;    arraycase[4][0][4] = 1;  arraycase[4][2][1] = 1;  }  System.out.print("6. Merasa mual dan sering muntah (lebih dari 1 kali) : ");  temp = keyboard.nextFloat();  if(temp == 1){  arraycase[0][1][2] = 1;    arraycase[1][1][2] = 1;    arraycase[2][1][1] = 1;    arraycase[3][0][2] = 1;  }  System.out.print("7. Merasa sakit di bagian perut? : ");  temp = keyboard.nextFloat();  if(temp == 1){  arraycase[0][2][1] = 1;    arraycase[1][2][1] = 1;    arraycase[2][2][1] = 1;    arraycase[4][1][1] = 1;  }  System.out.print("8. Tekanan darah rendah? : ");  temp = keyboard.nextFloat();  if(temp == 1){  arraycase[0][3][1] = 1;    arraycase[1][3][0] = 1;    arraycase[2][4][1] = 1;  }  System.out.print("9. Pusing? : ");  temp = keyboard.nextFloat();  if(temp == 1){  arraycase[0][3][2]=1;    arraycase[2][4][2]=1;    arraycase[4][2][2]=1;  }  System.out.print("10. Pingsan? : ");  temp = keyboard.nextFloat();  if(temp == 1){  arraycase[1][3][1]=1;  }  System.out.print("11. Suhu badan tinggi? : ");  temp = keyboard.nextFloat();  if(temp == 1){  arraycase[2][3][4]=1;  arraycase[2][4][2]=1;    arraycase[4][2][3]=1;  }  System.out.print("12. Luka di bagian tertentu? : ");  temp = keyboard.nextFloat();  if(temp == 1){  arraycase[2][4][4]=1;  }  System.out.print("13. Tidak dapat menggerakkan anggota badan tertentu? : ");  temp = keyboard.nextFloat();  if(temp == 1){  arraycase[3][1][1]=1;  }  System.out.print("14. Memakan sesuatu? : ");  temp = keyboard.nextFloat();  if(temp == 1){  arraycase[0][4][0]=1;    arraycase[1][4][0]=1;    arraycase[2][5][0]=1;    arraycase[3][2][0]=1;  }  System.out.print("15. Memakan daging? : ");  temp = keyboard.nextFloat();  if(temp == 1){  arraycase[0][4][1]=1;    arraycase[2][5][1]=1;  }  System.out.print("16. Memakan jamur? : ");  temp = keyboard.nextFloat();  if(temp == 1){  arraycase[1][4][1]=1;  }  System.out.print("17. Memakan makanan kaleng? : ");  temp = keyboard.nextFloat();  if(temp == 1){  arraycase[3][2][1]=1;  }  System.out.print("18. Membeli susu? : ");  temp = keyboard.nextFloat();  if(temp == 1){  arraycase[4][3][0]=1;  }  System.out.print("19. Meminum susu? : ");  temp = keyboard.nextFloat();  if(temp == 1){  arraycase[4][3][1]=1;  }  for(int j=0;j<=6;j++){  for(int i=0;i<=20;i++)  {  arraycase[0][j][21]+=arraycase[0][j][i];  arraycase[1][j][21]+=arraycase[1][j][i];  arraycase[2][j][21]+=arraycase[2][j][i];  arraycase[3][j][21]+=arraycase[3][j][i];  arraycase[4][j][21]+=arraycase[4][j][i];  }  }  arraycase[0][0][21]=arraycase[0][0][21]\*100/4;  arraycase[0][1][21]=arraycase[0][1][21]\*100/3;  arraycase[0][2][21]=arraycase[0][2][21]\*100/2;  arraycase[0][3][21]=arraycase[0][3][21]\*100/3;  arraycase[0][4][21]=arraycase[0][4][21]\*100/2;    arraycase[1][0][21]=arraycase[1][0][21]\*100/4;  arraycase[1][1][21]=arraycase[1][1][21]\*100/3;  arraycase[1][2][21]=arraycase[1][2][21]\*100/2;  arraycase[1][3][21]=arraycase[1][3][21]\*100/2;  arraycase[1][4][21]=arraycase[1][4][21]\*100/2;    arraycase[2][0][21]=arraycase[2][0][21]\*100/4;  arraycase[2][1][21]=arraycase[2][1][21]\*100/3;  arraycase[2][2][21]=arraycase[2][2][21]\*100/2;  arraycase[2][3][21]=arraycase[2][3][21]\*100/4;  arraycase[2][4][21]=arraycase[2][4][21]\*100/4;  arraycase[2][5][21]=arraycase[2][5][21]\*100/2;    arraycase[3][0][21]=arraycase[3][0][21]\*100/3;  arraycase[3][1][21]=arraycase[3][1][21]\*100/2;  arraycase[3][2][21]=arraycase[3][2][21]\*100/2;    arraycase[4][0][21]=arraycase[4][0][21]\*100/5;  arraycase[4][1][21]=arraycase[4][1][21]\*100/2;  arraycase[4][2][21]=arraycase[4][2][21]\*100/4;  arraycase[4][3][21]=arraycase[4][3][21]\*100/2;  Scanner input = new Scanner(System.in);  System.out.print("Masukkan Tresshold: ");  double tressHold = input.nextFloat();  System.out.println("==========================================================================");  System.out.println("Persentase Infeksi Gastro Usus");  System.out.println("==========================================================================");  System.out.println("\nKeracunan Staphylococcus Aureus");  System.out.println("1. Mencret = " + arraycase[0][0][21] + "% dari 20%");  System.out.println("2. Muntah = " + arraycase[0][1][21] + "% dari 20%");  System.out.println("3. Sakit Perut = " + arraycase[0][2][21] + "% dari 20%");  System.out.println("4. Darah Rendah = " + arraycase[0][3][21] + "% dari 20%");  System.out.println("5. Makan Daging = " + arraycase[0][4][21] + "% dari 20%");  double avg1 = (arraycase[0][0][21] + arraycase[0][1][21] + arraycase[0][2][21] + arraycase[0][3][21] + arraycase[0][4][21]) / 5;  *// System.out.println("hasil rata : " + avg1);*    System.out.println("\nKeracunan Jamur Beracun");  System.out.println("1. Mencret = " + arraycase[1][0][21] + "% dari 20%");  System.out.println("2. Muntah = " + arraycase[1][1][21] + "% dari 20%");  System.out.println("3. Sakit Perut = " + arraycase[1][2][21] + "% dari 20%");  System.out.println("4. Koma = " + arraycase[1][3][21] + "% dari 20%");  System.out.println("5. Makan jamur = " + arraycase[1][4][21] + "% dari 20%");  double avg2 = (arraycase[1][0][21] + arraycase[1][1][21] + arraycase[1][2][21] + arraycase[1][3][21] + arraycase[1][4][21]) / 5;  *// double avg2 = (arraycase[1][0][21] + arraycase[1][1][21] + )*    System.out.println("\nKeracunan Salmonellae");  System.out.println("1. Mencret = " + arraycase[2][0][21] + "% dari 16.66%");  System.out.println("2. Muntah = " + arraycase[2][1][21] + "% dari 16.66%");  System.out.println("3. Sakit Perut = " + arraycase[2][2][21] + "% dari 16.66%");  System.out.println("4. Demam = " + arraycase[2][3][21] + "% dari 16.66%");  System.out.println("5. Septicaemia = " + arraycase[2][4][21] + "% dari 16.66%");  System.out.println("6. Makan daging = " + arraycase[2][5][21] + "% dari 16.66%");  double avg3 = (arraycase[2][0][21] + arraycase[2][1][21] + arraycase[2][2][21] + arraycase[2][3][21] + arraycase[2][4][21] + arraycase[2][5][21]) / 6;    System.out.println("\nKeracunan Clostridium Botulinum");  System.out.println("1. Muntah = " + arraycase[3][0][21] + "% dari 33.33%");  System.out.println("2. Lumpuh = " + arraycase[3][1][21] + "% dari 33.33%");  System.out.println("3. Makan makanan kaleng = " + arraycase[3][2][21] + "% dari 33.33%");  double avg4 = (arraycase[3][0][21] + arraycase[3][1][21] + arraycase[3][2][21]) / 5;    System.out.println("\nKeracunan Campylobacter");  System.out.println("1. Mencret berdarah = " + arraycase[4][0][21] + "% dari 25%");  System.out.println("2. Sakit perut = " + arraycase[4][1][21] + "% dari 25%");  System.out.println("3. Demam = " + arraycase[4][2][21] + "% dari 25%");  System.out.println("4. Minum Susu = " + arraycase[4][3][21] + "% dari 25%");  double avg5 = (arraycase[4][0][21] + arraycase[4][1][21] + arraycase[4][2][21] + arraycase[4][3][21]) / 5;  System.out.println("==========================================================================");  System.out.println("Hasil Sistem Pakar dengan Tresshold sebesar " + tressHold + ", Maka: ");  if(avg1 >= tressHold)  System.out.println("Anda mengalami Keracunan Staphylococcus Aureus, dengan prosentase sebesar: " + avg1);  else if(avg2 >= tressHold)  System.out.println("Anda mengalami Keracunan Jamur Beracun, dengan prosentase sebesar: " + avg2);  else if(avg3 >= tressHold)  System.out.println("Anda mengalami Keracunan Salmonellae, dengan prosentase sebesar: " + avg3);  else if(avg4 >= tressHold)  System.out.println("Anda mengalami Keracunan Clostridium Botulinum, dengan prosentase sebesar: " + avg4);  else if(avg5 >= tressHold)  System.out.println("Anda mengalami Keracunan Campylobacter, dengan prosentase sebesar: " + avg5);  else System.out.println("Anda sehat, dan tidak ada penyakit Gastro Usus yang mendekati");  System.out.println("==========================================================================");  }  } |

* **Output**

A screenshot of a computer

Description automatically generated

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Description automatically generated