DERS ÖRNEKLER

DOSYADAN VERİ OKUMA/ VERİ YAZMA

Ayşegül ARPACI 100 35.5

Ayşegül Hanım Maaşınız : 3550,00
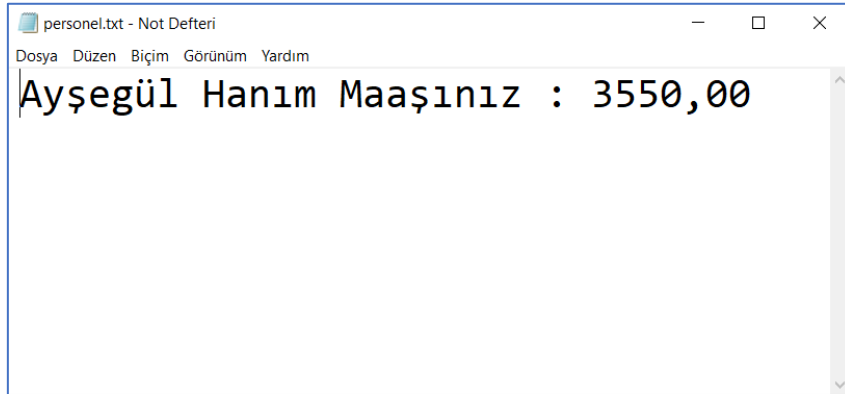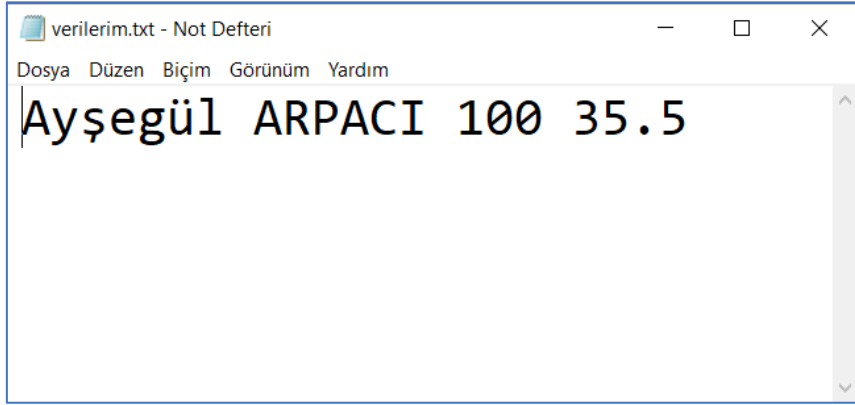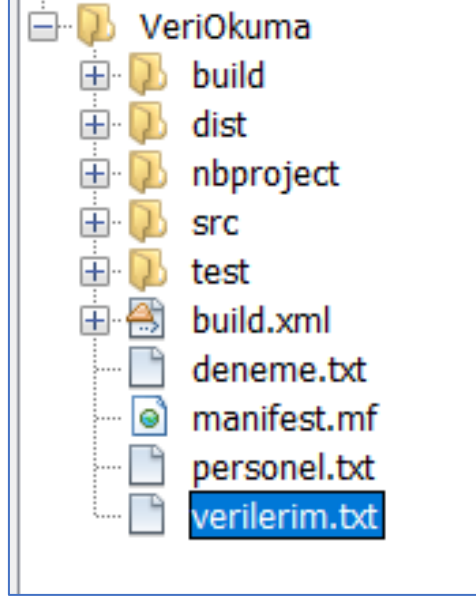
```java
import java.io.*;
import java.util.*;
import javax.swing.JOptionPane;
public class VeriOkuma {
    public static void main(String[] args) throws FileNotFoundException {
        Scanner deneme = new Scanner(new FileReader("verilerim.txt"));
        String firstName;
        String lastName;
        int hours;
        double payRate;
        double maas;
        firstName = deneme.next();
        lastName  = deneme.next();
        hours    = Integer.parseInt(deneme.next());
        payRate  = Double.parseDouble(deneme.next());
        deneme.close();
        maas = hours * payRate;
        JOptionPane.showMessageDialog(null,"Maaşınız : "+maas,"Maas
Programı",JOptionPane.INFORMATION_MESSAGE);
        PrintWriter outFile = new PrintWriter("personel.txt");
        outFile.printf("%s Hanım Maaşınız : %.2f",firstName,maas);
        outFile.close();
    }
}
```

KONSOLDAN VERİ OKUMA VE YAZMA

```java
import java.util.*;
public class InputDataGirdi {
    static Scanner console = new Scanner(System.in);
    public static void main(String[] args)
    {
        int feet;
        int inches;
        System.out.println("Enter two integers separated by spaces.");
        feet = console.nextInt();
        inches = console.nextInt();
        System.out.println("feet = " + feet);
        System.out.println("inches = " + inches);
    }
}
```

+ OPERATÖRÜNÜN KULLANIMI

```java
public class StringPlus {

    public static void main(String[]args)
    {
        System.out.println("The sum = " + 12 + 26);
        System.out.println("The sum = " + (12 + 26));
        System.out.println(12 + 26 + " is the sum");
        System.out.println("The sum of " + 12 + " and " + 26 + " = " + (12 + 26));
    }
}
```

TİP DÖNÜŞÜMÜ

```java
public class TypeConversion {
    public static void main(String[] args) {
        System.out.println("(int)(7.9) = " + (int)(7.9)+" Merhaba");
        System.out.println("(int)(3.3) = " + (int)(3.3));
        System.out.println("(double)(25) = " + (double)(25));
        System.out.println("(double)(5 + 3) = "+ (double)(5 + 3));
        System.out.println("(double)(15) / 2 = "+ ((double)(15) / 2));
        System.out.println("(double)(15 / 2) = "+ ((double)(15 / 2)));
        System.out.println("(int)(7.8 + (double)(15) / 2) = "+ ((int)(7.8 + (double)(15) / 2)));
        System.out.println("(int)(7.8 + (double)(15 / 2)) = "+ ((int)(7.8 + (double)(15 / 2))));
        /* Karakterler İçin */
        System.out.println(" A   --> (int) : "+(int)('A'));
        System.out.println("(int) -->   A   : "+(char)((int)('A')));
    }
}
```

STRİNG SINIFI ÖRNEK UYGULAMALARI

```java
import javax.swing.*;
public class StringSinifi {
    public static void main(String[] args) {
        //String deneme = "Merhaba Dünya";
        /*
        if(deneme.indexOf('k')==-1)
        {
            System.out.println("HATA !!!!");
        }
        else
        {
            System.out.println("Sonuc : " + deneme.indexOf('k'));
        //}
        */
        //String deneme2 = deneme.replace('a','*');
        //System.out.println(deneme2);
        //double x = 2.54;
        //System.out.printf("Decimal : %.2f ",x);
        String name = JOptionPane.showInputDialog("Enter your name and press OK");
        System.out.println("Name : "+name);
    }
}
```

HAVA SICAKLIĞI ÖRNEĞİ

```java
public class Temperature {
    public static void main(String[] args) {
        int temp = 0;
        temp = Integer.parseInt(JOptionPane.showInputDialog("Hava Sıacklığı : "));
        if(temp>=30){
                    JOptionPane.showMessageDialog(null,"T-Shirt Giy","Hava
                    Durumu",JOptionPane.INFORMATION_MESSAGE);
        }
        else if(temp>20&&temp<30){
                    JOptionPane.showMessageDialog(null,"Hırka Giy","Hava
                    Durumu",JOptionPane.INFORMATION_MESSAGE);
        }
        else{
                    JOptionPane.showMessageDialog(null,"Kazak Giy","Hava
                    Durumu",JOptionPane.INFORMATION_MESSAGE);
        }
    }
}
```

IF / ELSE KOŞUL İFADELERİ

```java
public class Exercises_5 {
  public static void main(String[] args)
  {
    /* Exercise 4 */
    int x = 3;
    int y = 4;
    int z = 7;
    int w = 1;
    System.out.println("x == y  : " + (x == y));
    System.out.println("x != z  : " + (x != z));
    System.out.println("!(z > w) : " + !(z > w));
    System.out.println("x + y < z: " + (x + y < z));
    /* Exercise 5 */
    x = 100;
    y = 200;
    if (x > 100 && y <= 200)
      System.out.println(x + " " + y + " " + (x + y));
    else
      System.out.println(x + " " + y + " " + (2 * x - y));
    /* Exercise 9 */
    int myNum = 10;
    int yourNum = 30;
    if (yourNum % myNum == 3)
    {
      yourNum = 3;
      myNum = 1;
    }
    else if (yourNum % myNum == 2)
    {
      yourNum = 2;
      myNum = 2;
    }
```

```java
      else
      {
        yourNum = 1;
        myNum = 3;
      }
      System.out.println(myNum + " " + yourNum);
   }
}
```

ARİTMETİK ORTALAMA

```java
import java.util.Scanner;
public class AritmetikOrtalama {
    public static void main(String[] args){
        int sayi,sayac=0,top=0,i;
        double ort;
        Scanner x = new Scanner(System.in);
        System.out.println("Terim Sayısı : ");
        sayac = x.nextInt();
        /*
        for(int i=0;i<sayac;i++){
            System.out.println("Bir Tamsayı Giriniz : ");
            sayi = x.nextInt();
            top += sayi; //top = top + sayi;
        }
        */
        i=0;
        while(i<sayac)
        {
            System.out.println("Bir Tamsayı Giriniz : ");
            sayi = x.nextInt();
            top += sayi; //top = top + sayi;
            i++;
        }
        ort = top / sayac;
        System.out.println("Aritmetik Ortalama : "+ort);
    }
}
```

Switch/Case HESAP MAKİNESİ

```java
import javax.swing.JOptionPane;

public class Calculator {
    public static void main(String[] args){
        int secim,a,b;
        System.out.println("---HESAP MAKİNESİ---");
        System.out.println("[1] Toplama");
        System.out.println("[2] Carpma");
        System.out.println("[3] Mod Alma");
        System.out.println("[0] Sistemden Çıkış");
        secim = Integer.parseInt(JOptionPane.showInputDialog("Seçiminiz : "));
        switch(secim)
        {
            case 1:
                a = Integer.parseInt(JOptionPane.showInputDialog("a : "));
                b = Integer.parseInt(JOptionPane.showInputDialog("b : "));
                System.out.println(a + " + " + b +" : "+(a+b));
                break;
            case 2:
                a = Integer.parseInt(JOptionPane.showInputDialog("a : "));
                b = Integer.parseInt(JOptionPane.showInputDialog("b : "));
                System.out.println(a + " x " + b +" : "+(a*b));
                break;
            case 3:
                a = Integer.parseInt(JOptionPane.showInputDialog("a : "));
                b = Integer.parseInt(JOptionPane.showInputDialog("b : "));
                System.out.println(a + " MOD " + b +" : "+(a%b));
                break;
            default:
                System.out.println("Sistemden Çıkış !!!");
        }
    }
}
```

Denklem KÖKLERİNİN BULUNMASI

```java
public class DenklemModeli {
    public static void main(String[] args){
        int a,b,c,delta;
        double x1,x2;
        Scanner x = new Scanner(System.in);
        System.out.println("Denklem Katsıyaları : ");
        a = x.nextInt();
        b = x.nextInt();
        c = x.nextInt();
        delta = (int) Math.pow(b,2)-(4*a*c);
        System.out.println("DELTA : "+delta);
        if(delta>0){
            x1 = (-b + Math.sqrt(delta))/(2*a);
            x2 = (-b - Math.sqrt(delta))/(2*a);
            System.out.println("x1 : " + x1 + "\nx2 : " + x2);
        }
        else if(delta==0){
            x1 = (-b + Math.sqrt(delta))/(2*a);
            x2 = (-b - Math.sqrt(delta))/(2*a);
            System.out.println("x1 : " + x1 + "\nx2 : " + x2);
        }
        else{
            System.out.println("REEL KÖK YOKTUR !!!");
        }
    }
}
```

FAKTÖRİYEL ÖRNEĞİ

```java
import java.util.Scanner;
public class Faktoriyel {
    public static void main(String[] args){
        int sayi,fk=1,i;
        Scanner x = new Scanner(System.in);
        System.out.println("Fakt. Hsp. SAyi : ");
        sayi = x.nextInt();
    /*
    while(sayi>1)
    {
        fk *= sayi;
        sayi--;
    }
    System.out.println("Faktoriyel : "+fk);
    */
    for(i=1;i<=sayi;i++)
    {
        fk *= i;
    }
    System.out.println("Faktoriyel : "+fk);
    }
}
```

HARF NOTU HESAPLAMA

```java
import javax.swing.JOptionPane;

public class GradeCalculate {
    public static void main(String[] args){

        int not;
        //String nott = "";
        char hn;

        not = Integer.parseInt(JOptionPane.showInputDialog("Ogrencinin Ortalaması :"));

        if(not<=100 && not>=85){
            hn = 'A';
        }
        else if(not<85 && not>=70){
            hn = 'B';
        }
        else if(not<70 && not>=60){
            hn = 'C';
        }
        else if(not<60 && not>=45){
            hn = 'D';
        }
        else{
            hn = 'F';
        }
        System.out.println("Ogrencin Harf Notu : "+hn);
    }

}
```

3 SAYININ SIRALANMASI

```java
import java.util.*;
public class Sayilar {
    public static void main(String[] args){
        int a,b,c;
        Scanner x = new Scanner(System.in);
        System.out.println("Ucgenin Kenarları : ");
        a = x.nextInt();
        b = x.nextInt();
        c = x.nextInt();
        // a'nın en büyük olduğu durum1
        if(a>b && a>c){
            if(b>c)
                System.out.println("a>b>c");
            else
                System.out.println("a>c>b");
        }
        // b'nın en büyük olduğu durum
        else if(b>a && b>c){
            if(a>c)
                System.out.println("b>a>c");
            else
                System.out.println("b>c>a");
        }
        else{
            if(a>b)
                System.out.println("c>a>b");
            else
                System.out.println("c>b>a");
        }
    }
}
```

ÜÇGENİN TÜRÜNÜN BULUNMASI

```java
import java.util.*;
public class Ucgen {
    public static void main(String[] args){
        int a,b,c;
        Scanner x = new Scanner(System.in);
        System.out.println("Ucgenin Kenarları : ");
        a = x.nextInt();
        b = x.nextInt();
        c = x.nextInt();

        if(a==b && a==c){
        System.out.println("Eş Kenar Üçgen");
        }
        else if(a!=b && a!=c && b!=c){
        System.out.println("Çeşit Kenar Üçgen");
        }
        else{
        System.out.println("İkiz Kenar Üçgen");
        }
    }
}
```

EKRAN ÇIKTISININ BULUNMASI (İÇ İÇE DÖNGÜSEL YAPI)

```java
public class SinavSorusuOrnek {
    public static void main(String[] args){
        int i=0,j,k=3;
        while(i<3){
            for(j=0;j<k;j++){
                System.out.print("X");
                if(i%2==0){
                    System.out.print("0");
                }
            }
            i++;
            System.out.print("\n");
        }
    }
}
```

EN BÜYÜK / EN KÜÇÜK SAYILARIN BULUNMASI

```java
public class EnbuyukEnkucuk {
    public static void main(String[] args){
        int enb,enk,sayi,i;
        String x;
        x = JOptionPane.showInputDialog("Bir T.S. Giriniz : ");
        sayi = Integer.parseInt(x);
        enb = sayi;
        enk = sayi;
        for(i=1;i<10;i++){
            x = JOptionPane.showInputDialog("Bir T.S. Giriniz : ");
            sayi = Integer.parseInt(x);
            if(sayi>enb)
                enb = sayi;
            if(sayi<enk)
                enk = sayi;
        }
        System.out.print("EN Buyuk : "+enb+" En Kucuk :"+enk);
    }
}
```

EULER KATSAYISININ HESAPLANMASI

```java
public class Euler {
    public static void main(String[] args){
        int n, fk=1,i,j;
        double t=0;
        Scanner deneme = new Scanner(System.in);
        System.out.println("Terim Sayısını Giriniz  :");
        n = deneme.nextInt();
        for(i=0;i<=n;i++){
            j = i;
            while(j>1){
                fk *= j;
                j--;
            }
            t += (double)1/fk;
            System.out.println("Fk : "+fk+" t : "+t);
            fk=1;
        }
        //System.out.print("Sonuc : "+t);
    }
}
```

PARA ÜSTÜ SORUSU

```java
public class ParaUstu {
    public static void main(String[] args){
        int avmik,mus,pu;
        int yuzluk,ellilik,yirmilik,onluk,beslik,birlik;
        String x;
        x = JOptionPane.showInputDialog("AV Miktar : ");
        avmik = Integer.parseInt(x);
        x = JOptionPane.showInputDialog("Musteri   : ");
        mus   = Integer.parseInt(x);
        pu = mus - avmik;
        yuzluk = pu / 100;
        pu -= yuzluk * 100;
        ellilik = pu / 50;
        pu -= ellilik * 50;
        yirmilik = pu / 20;
        pu -= yirmilik * 20;
        onluk = pu / 10;
        pu -= onluk * 10;
        beslik = pu / 5;
        pu -= beslik * 5;
        System.out.println("Yuzluk   : "+yuzluk);
        System.out.println("Ellilik  : "+ellilik);
        System.out.println("Yirmilik : "+yirmilik);
        System.out.println("Onluk    : "+onluk);
        System.out.println("Beşlik   : "+beslik);
        System.out.println("Birlik   : "+pu);
    }
}
```

KUVVET HESAPLAMA (pow işlemi)

```java
public class Power {
    public static void main(String[] args){
        int a,b,c=1,i;
        Scanner deneme = new Scanner(System.in);
        System.out.println("Tabanı ve Üssü Giriniz :");
        a = deneme.nextInt();
        b = deneme.nextInt();/*
        while(b>0){
            c *= a;
            b--;
        }*/
        for(i=1;i<=b;i++){
            c *= a;
        }
        System.out.println(a+"^"+b+" : "+c);
    }
}
```

TEK SAYILARIN TOPLANMASI

```java
public class TekToplam {
    public static void main(String[] args){
        int t=0,i;
        for(i=0;i<=20;i++){
            if(i%2==1){
                t += i;
            }
        }
        System.out.println("Sonuç : "+t);
    }
}
```