

File Edit View Navigate Code Refactor Build Run Tools Git Window Help Java2021allfiles - Pr07.java [Java2021allfiles]

Java2021allfiles > src > JavaKonusalSorular > Pratik12_WhileLoop > Pr07 > main

Project Commit Pull Requests Bookmarks Structure

Pr02.java X Pr03.java X Pr04.java X Pr05.java X Pr06.java X Pr07.java X Run: Pr07 X

Pr07.java

```
package JavaKonusalSorular.Pratik12_WhileLoop;
import java.util.Scanner;
public class Pr07 {
    public static void main(String[] args) {
        // Soru : Kullaniciidan bir sayı alın ve bu sayıya tam bolen sayıları ve toplam kaç tane
        // olduklarını ekranda yazdırın

        Scanner scan= new Scanner(System.in);
        System.out.println("Lütfen bir adet tam sayı giriniz: ");

        int sayı= scan.nextInt();
        int tamBolen=1;
        int sayac=0;

        while (tamBolen<=sayı) {
            if (sayı%tamBolen==0) {
                System.out.print(tamBolen + " ");
                sayac++;
            }
            tamBolen++;
        }

        System.out.println("\nGirdiginiz sayiyi tam bolen " + sayac + " adet sayı var.");
        scan.close();
    }
}
```

Run: Pr07 X

C:\Users\HP\.jdks\openjdk-18.0.2\bin\java.exe "-javaagent:C:\Program
Lütfen bir adet tam sayı giriniz:
42
1 2 3 6 7 14 21 42
Girdiginiz sayiyi tam bolen 8 adet sayı var.
Process finished with exit code 0

Git Debug TODO Problems Terminal Services Build

All files are up-to-date (moments ago) 8:1 CRLF windows-1254 4 spaces master

File Edit View Navigate Code Refactor Build Run Tools Git Window Help Java2021allfiles - Pr08.java [Java2021allfiles]

Java2021allfiles > src > JavaKonusalSorular > Pratik12_WhileLoop > Pr08

Project Commit Pull Requests Bookmarks Structure

Run: Pr08

C:\Users\HP\.jdks\openjdk-18.0.2\bin\java.exe "-javaagent:C:\Program Bir metin giriniz : mehmet e m t Process finished with exit code 0

```
package JavaKonusalSorular.Pratik12_WhileLoop;
import java.util.Scanner;
public class Pr08 {
    public static void main(String[] args) {
        // Kullanicidan alınan bir stringdeki indexi tek  olan karakterleri yazdırınız.
        Scanner scan = new Scanner(System.in);
        System.out.print("Bir metin giriniz : ");
        String str = scan.nextLine();
        int i = 0;
        do {
            if (i % 2 == 1) {
                System.out.print(str.charAt(i)+" ");
            }
            i++;
        } while (i < str.length());
    }
}
```

Git Debug TODO Problems Terminal Services Build

Build completed successfully in 5 sec, 983 ms (moments ago)

5:1 LF UTF-8 4 spaces master

File Edit View Navigate Code Refactor Build Run Tools Git Window Help Java2021allfiles - Pr09.java [Java2021allfiles]

Java2021allfiles > src > JavaKonusalSorular > Pratik12_WhileLoop > Pr09 > gunterMethodu

Project Commit Pull Requests Bookmarks Structure

Pr04.java X Pr05.java X Pr06.java X Pr07.java X Pr08.java X Pr09.java X

Run: Pr09

C:\Users\HP\.jdks\openjdk-18.0.2\bin\java.exe "-javaagent:C:\Program
lutfen bir rakam giriniz
7
*
* *
* * *
* * * *
* * * * *
* * * * * *
Process finished with exit code 0

```
1 package JavaKonusalSorular.Pratik12_WhileLoop;
2 import java.util.Scanner;
3 public class Pr09 {
4     public static void main(String[] args) {
5         // yildizlarla eskenar ucgen olusturma
6
7         Scanner scan = new Scanner(System.in);
8         System.out.println("lutfen bir rakam giriniz");
9
10        int rakam = scan.nextInt();
11
12        gunterMethodu(rakam);
13
14        scan.close();
15    }
16
17    public static void gunterMethodu(int rakam) {
18        int m = 1;
19        String sekil = "* ";
20        String sekil2 = " ";
21
22        for (int i = 1; i <= rakam; i++) {
23            for (int j = 1; j <= rakam - i; j++) {
24
25                System.out.print(sekil2);
26            }
27            for (int k = 1; k <= m; k++) {
28                System.out.print(sekil);
29            }
30            m += 1;
31
32            System.out.println("");
33        }
34    }
35}
```

Git Debug TODO Problems Terminal Services Build

All files are up-to-date (a minute ago)

34:10 CRLF windows-1254 Tab* master

File Edit View Navigate Code Refactor Build Run Tools Git Window Help Java2021allfiles - Pr10.java [Java2021allfiles]

Java2021allfiles > src > JavaKonusalSorular > Pratik12_WhileLoop > Pr10

Project Commit Pull Requests Bookmarks Structure

Pr05.java Pr06.java Pr07.java Pr08.java Pr09.java Pr10.java

Run: Pr10

C:\Users\HP\.jdks\openjdk-18.0.2\bin\java.exe "-javaagent:C:\Program Lutfen ilk sayiyi giriniz 28 Lutfen son sayiyi giriniz 42 girdiginiz 28 ile 42 arasindaki cift sayilar 28 30 32 34 36 38 40 42 Process finished with exit code 0

```
package JavaKonusalSorular.Pratik12_WhileLoop;
import java.util.Scanner;
public class Pr10 {
    public static void main(String[] args) {
        // Soru : Kullaniciidan baslangic ve bitis degerlerini alin.
        // Baslangic degeri ve bitis degeri dahil aradalarindaki tum cift tamsayiları
        // while loop kullanarak ekran'a yazdiriniz.

        Scanner scan = new Scanner(System.in);
        System.out.println("Lutfen ilk sayiyi giriniz");
        int sayi1 = scan.nextInt();
        System.out.println("Lutfen son sayiyi giriniz");
        int sayi2 = scan.nextInt();
        int i = sayi1;
        int j = sayi2;

        if (sayi1 >= sayi2) {
            System.out.println("girdiginiz " + sayi1 + " ile " + sayi2 + " arasindaki cift sayilar");
            while (j <= i) {
                if (j % 2 == 0) {
                    System.out.print(j + " ");
                }
                j++;
            }
        } else if (sayi1 <= sayi2) {
            System.out.println("girdiginiz " + sayi1 + " ile " + sayi2 + " arasindaki cift sayilar");
            while (i <= j) {
                if (i % 2 == 0) {
                    System.out.print(i + " ");
                }
                i++;
            }
        }
        scan.close();
    }
}
```

Git Debug TODO Problems Terminal Services Build

Build completed successfully in 6 sec, 694 ms (a minute ago) 9:1 CRLF windows-1254 Tab* master

File Edit View Navigate Code Refactor Build Run Tools Git Window Help Java2021allfiles - Pr11.java [Java2021allfiles]

Java2021allfiles > src > JavaKonusalSorular > Pratik12_WhileLoop > Pr11 > main

Project Commit Pull Requests Bookmarks Structure

Pr06.java X Pr07.java X Pr08.java X Pr09.java X Pr10.java X Pr11.java X Run: Pr11 X

C:\Users\HP\.jdks\openjdk-18.0.2\bin\java.exe "-javaagent:C:\Program Lutfen iki pozitif tamsayi giriniz 421 -28 lutfen pozitif iki sayı giriniz 56 45 well done girilen sayıların çarpımı : 2520 Process finished with exit code 0

Code:

```
package JavaKonusalSorular.Pratik12_WhileLoop;

import java.util.Scanner;

public class Pr11 {

    public static void main(String[] args) {

        // Kullanıcıdan iki pozitif sayı isteyin
        // kullanıcı negatif sayı girdiginde
        // girilen negatif sayıları yok sayıp, yeniden değer isteyin
        // kullanıcı doğru giriş yaptığından "well done" ve sayıların çarpımı yazdırın

        Scanner scan = new Scanner(System.in);

        System.out.println("Lutfen iki pozitif tamsayı giriniz");

        int sayı1 = 0;
        int sayı2 = 0;

        while (!(sayı1 > 0 && sayı2 > 0)) {
            sayı1 = scan.nextInt();
            sayı2 = scan.nextInt();
            if (sayı1 > 0 && sayı2 > 0) {
                System.out.println("well done \ngirilen sayıların çarpımı : " + (sayı1 * sayı2));
            } else {
                System.out.println("Lutfen pozitif iki sayı giriniz");
            }
        }

        scan.close();
    }
}
```

Git Debug TODO Problems Terminal Services Build

Build completed successfully in 7 sec, 114 ms (moments ago)

12:1 CRLF windows-1254 Tab* master

File Edit View Navigate Code Refactor Build Run Tools Git Window Help Java2021allfiles - Pr12.java [Java2021allfiles]

Java2021allfiles > src > JavaKonusalSorular > Pratik12_WhileLoop > Pr12 > main

Project Commit Pull Requests Bookmarks Structure

Pr00 Pr07.java Pr08.java Pr09.java Pr10.java Pr11.java Pr12.java Pr13.java Pr14.java Pr15.java Pr16.java Pr17.java Pr18.java Pr19.java Pr20.java Pr21.java Pr22.java Pr23.java Pr24.java Pr25.java Pr26.java Pr27.java WhileSor Pratik13_Do Pratik14_Arr Pratik15_Arr Pratik16_Cor Pratik17_Enc Pratik18_Inh Pratik19_Ove Pratik20_Exc Pratik21_Abs

Run: Pr12

```
1 package JavaKonusalSorular.Pratik12_WhileLoop;
2 import java.util.Scanner;
3 public class Pr12 {
4
5     public static void main(String[] args) {
6         // Kullanicidan 2 sayi aliniz.
7         //1. sayi taban
8         //2. sayi ust
9         //1 sayinin ussunu hesaplatan bir kod yaziniz.
10        // 3, 2 --> 3^2 = 3*3 = 9
11        // 2, 5 --> 2^5= 2*2*2*2*2 = 32
12
13        Scanner scan = new Scanner(System.in);
14        System.out.print("Lutfen taban ve uss giriniz : ");
15        int taban = scan.nextInt();
16        int uss = scan.nextInt();
17        int sonuc = 1;
18
19        while (uss != 0) {
20            sonuc *= taban; // sonuc = sonuc*taban
21            uss--;
22        }
23        System.out.println("while loop ile cozum: " + sonuc);
24
25        ----- for cozum -----
26
27        for (int i = 1; i < uss; i++) {
28            sonuc *= taban; //sonuc= sonuc*taban
29        }
30        System.out.println("for loop ile cozum: " + sonuc);
31
32    }
33
34 }
```

C:\Users\HP\.jdks\openjdk-18.0.2\bin\java.exe "-javaagent:C:\Program Lutfen taban ve uss giriniz : 5 3 while loop ile cozum: 125 for loop ile cozum: 125

Process finished with exit code 0

Git Debug TODO Problems Terminal Services Build

Build completed successfully in 7 sec, 207 ms (moments ago)

8:1 LF windows-1254 4 spaces master

The screenshot shows a Java code editor in PyCharm. The project navigation bar at the top lists files like Pr08.java, Pr09.java, Pr10.java, Pr11.java, Pr12.java, Pr13.java, and Pr14.java. The current file, Pr13.java, is open and contains the following code:

```
package JavaKonusalSorular.Pratik12_WhileLoop;
import java.util.Scanner;
public class Pr13 {
    /* Kullaniciidan alınan bir sayının basamak değerlerinin toplamını
     * while loop ile hesaplayan bir method yazınız.
     */
    public static void main(String[] args) {
        Scanner scan = new Scanner(System.in);
        System.out.print("Lütfen bir sayı giriniz : ");
        int sayi = scan.nextInt();
        basamakToplaWhile(sayi);
    }
    public static int basamakToplaWhile(int sayi) {
        int toplam = 0;
        while (sayi != 0) {
            toplam += sayi % 10;
            sayi /= 10;
        }
        System.out.println("Girilen sayının basamak toplamı While çözümü = "+toplam);
        return toplam;
    }
}
```

The code uses a while loop to calculate the sum of digits of a given number. A tooltip for the while loop line indicates: "Kullaniciidan alınan bir sayının basamak değerlerinin toplamını while loop ile hesaplayan bir method yazınız.". The output window shows the command run and the result: "Lütfen bir sayı giriniz : 587" and "Girilen sayının basamak toplamı While çözümü = 20". The status bar at the bottom indicates the build was successful in 7 seconds.

The screenshot shows an IDE interface with the following details:

- File Menu:** File, Edit, View, Navigate, Code, Refactor, Build, Run, Tools, Git, Window, Help.
- Title Bar:** Java2021allfiles - Pr14.java [Java2021allfiles]
- Project Tree:** Shows a project structure with files like Pr00, Pr09, Pr10, Pr11, Pr12, Pr13, Pr14, Pr15, Pr16, Pr17, Pr18, Pr19, Pr20, Pr21, Pr22, Pr23, Pr24, Pr25, Pr26, Pr27, Pratik13_Dov, Pratik14_Arr, Pratik15_Arr, Pratik16_Cor, Pratik17_Enc, Pratik18_Inh, Pratik19_Ove, Pratik20_Exc, and Pratik21_Abs.
- Code Editor:** The current file is Pr14.java. The code implements a division algorithm using a while loop. It prompts the user for a dividend and divisor, then prints the quotient.

```
package JavaKonusalSorular.Pratik12_WhileLoop;
import java.util.Scanner;
public class Pr14 {
    static int bolum = 0; //class level de bir variable
    public static void main(String[] args) {
        // Kullanicidan bolunen ve bolen seklinde 2 sayi alip bolme operatoru
        // Kullanmadan bolme islemi gerceklestiip yazdiran bir method kodlayiniz.
        Scanner scan = new Scanner(System.in);
        System.out.print("Lutfen bolunecek sayiyi giriniz : ");
        int bolunen = scan.nextInt();

        System.out.print("Lutfen bolen sayiyi giriniz : ");
        int bolen = scan.nextInt();

        System.out.println("Bolme isleminin sonucu: " + bolme(bolunen, bolen));
    }
    public static int bolme(int bolunen, int bolen) {
        while (bolunen >= bolen) { //10= 10-2
            bolunen -= bolen;//bolunen=bolunen-bolen 10 = 10-2
            bolum++;
        }
        return bolum;
    }
}
```

- Run Tab:** The run configuration is set to Pr14. The output window shows the execution results:

```
C:\Users\HP\.jdks\openjdk-18.0.2\bin\java.exe "-javaagent:C:\Program
Lutfen bolunecek sayiyi giriniz : 75
Lutfen bolen sayiyi giriniz : 5
Bolme isleminin sonucu: 15

Process finished with exit code 0
```

File Edit View Navigate Code Refactor Build Run Tools Git Window Help Java2021allfiles - Pr15.java [Java2021allfiles]

Java2021allfiles > src > JavaKonusalSorular > Pratik12_WhileLoop > Pr15 > main

Project Commit Pull Requests Bookmarks Structure

java x Pr10.java x Pr11.java x Pr12.java x Pr13.java x Pr14.java x Pr15.java x Pr15.java x

Run: Pr15 x

C:\Users\HP\.jdks\openjdk-18.0.2\bin\java.exe "-javaagent:C:\Program
x = 6
y = 3

Process finished with exit code 0

Code:

```
package JavaKonusalSorular.Pratik12_WhileLoop;

public class Pr15 {

    public static void main(String[] args) {
        /*
        Aşağıdaki kod bloğunun çıktısı ne olur?
        */

        int x = 3;
        int y = 0;
        while (y < 3) {
            x += 1; //x = x + 1
            y += 1;
        }
        System.out.println("x = " + x);
        System.out.println("y = " + y);
    }
}
```

Git Debug TODO Problems Terminal Services Build

All files are up-to-date (moments ago) 19:5 LF UTF-8 4 spaces master

File Edit View Navigate Code Refactor Build Run Tools Git Window Help Java2021allfiles - Pr16.java [Java2021allfiles]

Java2021allfiles > src > JavaKonusalSorular > Pratik12_WhileLoop > Pr16 > main

Project Commit Pull Requests Bookmarks Structure

File Project Commit Pull Requests Bookmarks Structure

Project: Java2021allfiles

File: Pr16.java

Code:

```
package JavaKonusalSorular.Pratik12_WhileLoop;
import java.util.Scanner;

public class Pr16 {

    public static void main(String[] args) {
        //TODO INTEGER OLAN PIN kodunuzu kontrol eden bir kod yazınız.

        Scanner scan = new Scanner(System.in);

        System.out.print("PIN kodunuzu giriniz : ");
        int userPin = scan.nextInt();

        int pinCode = 1453;

        while (userPin != pinCode) {
            System.out.println("***** Yanlış PIN *****");
            System.out.println("Tekrar Deneyiniz");
            userPin = scan.nextInt(); //tekrar pin isteyerek kodu devam ettirecek...
        }
        System.out.println("Gayet BAŞARILI Pin Onaylandı :)");
    }
}
```

Run: Pr16

Output:

```
C:\Users\HP\.jdks\openjdk-18.0.2\bin\java.exe "-javaagent:C:\Program
PIN kodunuzu giriniz : 1453
Gayet BAŞARILI Pin Onaylandı :)

Process finished with exit code 0
```

Git:

Terminal Services Build

Git Debug TODO Problems Terminal Services Build

Build completed successfully in 6 sec, 131 ms (moments ago)

6:1 LF UTF-8 4 spaces master

File Edit View Navigate Code Refactor Build Run Tools Git Window Help Java2021allfiles - Pr17.java [Java2021allfiles]

Java2021allfiles > src > JavaKonusalSorular > Pratik12_WhileLoop > Pr17 > main

Project Commit Pull Requests Bookmarks Structure

Run: Pr17

Pr17.java

```
package JavaKonusalSorular.Pratik12_WhileLoop;
import java.util.Scanner;
public class Pr17 {

    /* Girilen pozitif bir sayının tam kare olup olmadığını bulunuz,
       tamkare ise true değilse false yazdırınız.
       Not: sqrt gibi fonksiyonları kullanmayın.
       Example 1:
       Input: 16
       Output: true
       Note: bu sayı tamkare çünkü 4*4 = 16
       Example 2:
       Input: 25
       Output: true
       Note: bu sayı tamkare çünkü 5*5=25
       Example 3:
       Input: 14
       Output: false */
    public static void main(String[] args) {

        Scanner scan = new Scanner(System.in);
        System.out.print("bir sayı giriniz : ");
        int sayı = scan.nextInt();
        int count = 1;
        boolean a = false;
        while (count * count <= sayı) {
            if (count * count == sayı) {
                a = true;
                System.out.println(a);
            }
            count++;
        }
        if (a == false) System.out.println(a);
    }
}
```

C:\Users\HP\.jdks\openjdk-18.0.2\bin\java.exe "-javaagent:C:\Program
bir sayı giriniz : 3
false
Process finished with exit code 0

Git Debug TODO Problems Terminal Services Build

All files are up-to-date (a minute ago)

6:1 LF UTF-8 4 spaces master

File Edit View Navigate Code Refactor Build Run Tools Git Window Help Java2021allfiles - Pr18.java [Java2021allfiles]

Java2021allfiles > src > JavaKonusalSorular > Pratik12_WhileLoop > Pr18 > main

Project Commit Pull Requests Bookmarks Structure

Pr13.java x Pr14.java x Pr15.java x Pr16.java x Pr17.java x Pr18.java x Run: Pr18 x

1 package JavaKonusalSorular.Pratik12_WhileLoop;
2
3 import java.util.Scanner;
4
5 public class Pr18 {
6
7 public static void main(String[] args) {
8 /*
9 Girilen bir sayıya kadar olan sayılarından sadece tek olanlarını
10 ve en sonda toplamını ekrana yazdırınız.
11 tric: girilen sayı dahil
12 */
13
14 Scanner scan = new Scanner(System.in);
15 System.out.print("sayı giriniz =");
16 int sayı=scan.nextInt(); //5
17
18 //sayı--; bu şekilde sayının kendisi işleme girmez
19
20 int toplam=0;
21 while(sayı>0)
22 {
23 if (sayı%2==1)
24 System.out.print(sayı+", ");
25 toplam+=sayı;
26
27 sayı--; // 5 4 3 2 1
28 } System.out.println("\n"+toplam);
29 }
30 }
31
32

C:\Users\HP\.jdks\openjdk-18.0.2\bin\java.exe "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA 2021.3.1\lib\idea_rt.jar" -Dfile.encoding=UTF-8 main
sayı giriniz =42
41, 39, 37, 35, 33, 31, 29, 27, 25, 23, 21, 19, 17, 15, 13, 11, 9, 7, 5, 3, 1,
903
Process finished with exit code 0

Git Debug TODO Problems Terminal Services Build

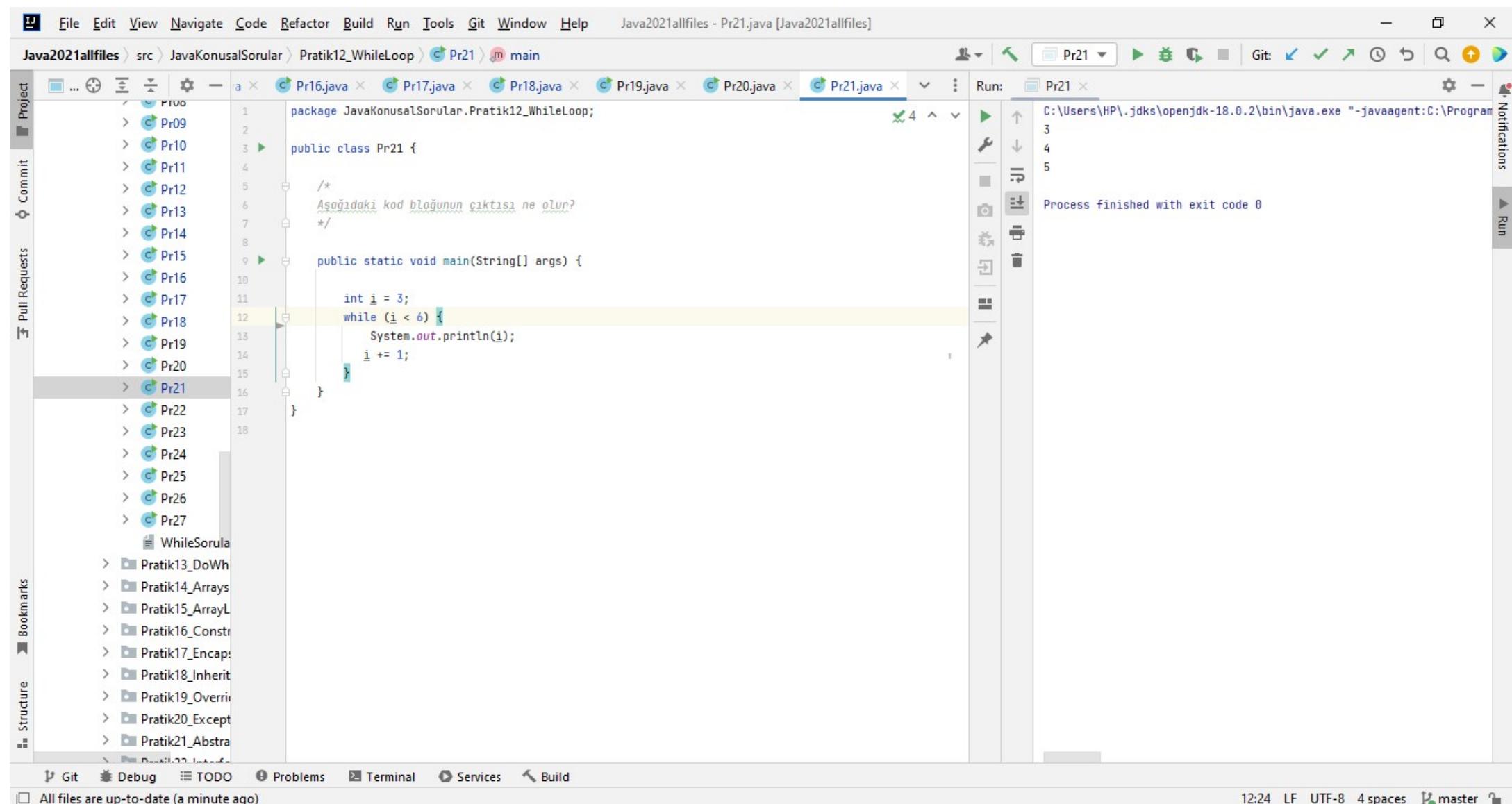
Build completed successfully in 6 sec, 212 ms (moments ago) 7:1 LF UTF-8 4 spaces master

The screenshot shows an IDE interface with the following details:

- File Menu:** File, Edit, View, Navigate, Code, Refactor, Build, Run, Tools, Git, Window, Help.
- Title Bar:** Java2021allfiles - Pr20.java [Java2021allfiles]
- Project Tree:** Shows a project structure with files like Pr00, Pr09, Pr10, Pr11, Pr12, Pr13, Pr14, Pr15, Pr16, Pr17, Pr18, Pr19, Pr20, Pr21, Pr22, Pr23, Pr24, Pr25, Pr26, Pr27, WhileSorula, Pratik13_DoWh, Pratik14_Arrays, Pratik15_ArrayL, Pratik16_Constr, Pratik17_Encap, Pratik18_Inherit, Pratik19_Overri, Pratik20_Except, and Pratik21_Abstra.
- Code Editor:** The current file is Pr20.java, which contains Java code to calculate the factorial of a number using a while loop. The code includes comments explaining the problem statement and sample outputs.
- Run Tab:** The run configuration is set to Pr20. The output window shows the execution results:

```
C:\Users\HP\.jdks\openjdk-18.0.2\bin\java.exe "-javaagent:C:\Program
Bir sayı giriniz : 6
Sayının faktoriyeli= 720

Process finished with exit code 0
```
- Bottom Navigation:** Git, Debug, TODO, Problems, Terminal, Services, Build.
- Status Bar:** All files are up-to-date (moments ago), 6:1, LF, UTE-8, 4 spaces, master.



File Edit View Navigate Code Refactor Build Run Tools Git Window Help Java2021allfiles - Pr22.java [Java2021allfiles]

Java2021allfiles > src > JavaKonusalSorular > Pratik12_WhileLoop > Pr22 > main

Project Commit Pull Requests Bookmarks Structure

Pr17.java X Pr18.java X Pr19.java X Pr20.java X Pr21.java X Pr22.java X Run: Pr22 X

```
1 package JavaKonusalSorular.Pratik12_WhileLoop;
2
3 import java.util.Scanner;
4
5 public class Pr22 {
6
7     public static void main(String[] args) {
8
9         // Kullanıcıdan 5 sayı isteyiniz, bu sayılarından en büyüğünü bularak yazdırınız.
10
11         Scanner scan=new Scanner(System.in);
12
13         int sayac=1;
14         int enb=0;
15
16         while(sayac<=5)
17         {
18             System.out.print("Sayı giriniz : ");
19             int sayı = scan.nextInt();
20
21             if (sayı > enb)
22                 enb=sayı;
23
24             // enb=Math.max(enb, sayı); // yukarıdaki if li yapıya karşılık kullanılabilir.
25
26             sayac++;
27         }
28
29         System.out.println("enb = " + enb);
30     }
31
32
33
34 }
```

Run: Pr22 X

C:\Users\HP\.jdks\openjdk-18.0.2\bin\java.exe "-javaagent:C:\Program
Sayı giriniz : 5
Sayı giriniz : 85
Sayı giriniz : 42
Sayı giriniz : 75
Sayı giriniz : 28
enb = 85

Process finished with exit code 0

Git Debug TODO Problems Terminal Services Build

Build completed successfully in 26 sec, 391 ms (moments ago)

10:1 LF UTF-8 4 spaces master

The screenshot shows an IDE interface with the following details:

- File Menu:** File, Edit, View, Navigate, Code, Refactor, Build, Run, Tools, Git, Window, Help.
- Title Bar:** Java2021allfiles - Pr23.java [Java2021allfiles].
- Project Explorer:** Shows a project structure with files like Pr16.java, Pr17.java, Pr18.java, Pr19.java, Pr20.java, Pr21.java, Pr22.java, and Pr23.java. The file Pr23.java is currently selected.
- Code Editor:** Displays the Java code for Pr23.java. The code calculates the total distance a ball travels given its initial height and a bounce coefficient of 0.75. It uses a while loop to simulate bounces until the ball's height is less than or equal to 1.
- Run Tab:** Shows the output of the program. The terminal window displays:

```
C:\Users\HP\jdks\openjdk-18.0.2\bin\java.exe
topun birakilacagi yuksekligi giriniz : 15
topun zemine vurma sayisi = 10
Topun toplam aldigı yol = 99.93178367614746

Process finished with exit code 0
```
- Bottom Navigation:** Git, Debug, TODO, Problems, Terminal, Services, Build.
- Status Bar:** All files are up-to-date (a minute ago), 7:1 LF UTF-8 4 spaces, master.

File Edit View Navigate Code Refactor Build Run Tools Git Window Help Java2021allfiles - Pr24.java [Java2021allfiles]

Java2021allfiles > src > JavaKonusalSorular > Pratik12_WhileLoop > Pr24 > main

Project Commit Pull Requests Bookmarks Structure

Pr17.java × Pr18.java × Pr19.java × Pr20.java × Pr21.java × Pr22.java × Pr23.java × Pr24.java × Run: Pr24 ×

```
package JavaKonusalSorular.Pratik12_WhileLoop;
import java.util.Scanner;
public class Pr24 {
    public static void main(String[] args) {
        /* Verilen iki sayıının kombinasyonunu bulan kodu yazınız.
        Hatırlatma  $C(n,r) = n! / (r!(n-r)!)$ 
        Ekran Çıktısı : Birinci sayıyı giriniz: 15
        İkinci sayıyı giriniz: 4      Kombinasyon: 1365
        Birinci sayıyı giriniz: 5  İkinci sayıyı giriniz: 3
        Kombinasyon: 10      */

        Scanner klavye = new Scanner(System.in);
        System.out.print("N Değerini Giriniz : ");
        long n = klavye.nextInt();
        System.out.print("R Değerini Giriniz : ");
        long r = klavye.nextInt();
        long sayac1 = 1;
        long faktor1 = 1;
        while (sayac1 <= n){
            faktor1 *= sayac1;
            sayac1++;
        }
        long sayac2 = 1;
        long faktor2 = 1;
        while (sayac2 <= r){
            faktor2 *= sayac2;
            sayac2++;
        }
        long sayac3 = 1;
        long faktor3 = 1;
        while (sayac3 <= n-r){
            faktor3 *= sayac3;
            sayac3++;
        }
        System.out.println("kombinasyon = " + faktor1/(faktor2*faktor3));
    }
}
```

Notifications

C:\Users\HP\.jdks\openjdk-18.0.2\bin\java.exe
N Değerini Giriniz : 15
R Değerini Giriniz : 4
kombinasyon = 1365
Process finished with exit code 0

Git Debug TODO Problems Terminal Services Build

All files are up-to-date (moments ago) 7:1 LF UTF-8 4 spaces master

File Edit View Navigate Code Refactor Build Run Tools Git Window Help Java2021allfiles - Pr27.java [Java2021allfiles]

Java2021allfiles > src > JavaKonusalSorular > Pratik12_WhileLoop > Pr27 > main

Project Commit Pull Requests Bookmarks Structure

Pr25.java X Pr26.java X Pr27.java X

Run: Pr25 X Pr27 X

C:\Users\HP\.jdks\openjdk-18.0.2\bin\java.exe "-javaagent:C:\Program F
Lutfen Armstrong oldugunu kontrol edeceginiz tamsayiyi yaziniz : 153
Gayet basarili :) Girdiginiz sayı bir Armstrong sayidir

Process finished with exit code 0

1 package JavaKonusalSorular.Pratik12_WhileLoop;
2 import java.util.Scanner;
3 public class Pr27 {
4
5 public static void main(String[] args) {
6
7 // Kullanicidan alınan bir sayının
8 // Armstrong sayı olup olmadığını kontrol eden program yazın
9 // Armstrong sayı rakamlarının küplerinin toplamına eşit olan sayıdır
10 // 153 = (1*1*1) + (5*5*5) + (3*3*3) gibi
11
12 Scanner scan=new Scanner(System.in);
13 System.out.print("Lutfen Armstrong oldugunu kontrol edeceginiz tamsayiyi yaziniz : ");
14 int sayı=scan.nextInt();
15
16 int kuplerToplami=0;
17 int ilkDeger=sayı; //ilk değer atanmazsa while içinde sayı sürekli değiştiğinden sayı ilk değeri korunmaz.
18 int rakam;
19
20 while(sayı != 0) {
21 rakam=sayı%10;
22 sayı/=10;
23 kuplerToplami+=rakam*rakam*rakam;
24 }
25
26 if (kuplerToplami==ilkDeger) {
27 System.out.println("Gayet basarili :) Girdiginiz sayı bir Armstrong sayidir ");
28 } else System.out.println("Basarisiz :(Girdiginiz sayı bir Armstrong sayı degildir ");
29
30 scan.close();
31 }
32}
33}

Git Debug TODO Problems Terminal Services Build

Build completed successfully in 16 sec, 290 ms (moments ago)

6:1 LF UTF-8 4 spaces master

File Edit View Navigate Code Refactor Build Run Tools Git Window Help Java2021allfiles - Pr01.java [Java2021allfiles]

Java2021allfiles > src > JavaKonusalSorular > Pratik13_DoWhileLoop > Pr01 > main

Proj... Pr25.java Pr26.java Pr27.java Pr01.java

Run: Pr25 Pr01

Notifications

Project Commit Pull Requests Bookmarks Structure

Pratik03_AritmetikOparatörler
Pratik04_ArtırmaAzaltma
Pratik05_Mantiksalveil
Pratik06_Modulus
Pratik07_ScannerClass
Pratik08_IfStatements
Pratik09_Ternary
Pratik10_SwitchCase
Pratik11_ForLoop
Pratik12_WhileLoop
Pratik13_DoWhileLoop
Pr01
Pr02
Pr03
Pr04
Pr05
Pr06
Pr07
Pratik14_Arrays
Pratik15_ArrayList
Pratik16_Constructors
Pratik17_Encapsulation
Pratik18_Inheritance
Pratik19_Override
Pratik20_Exceptions
Pratik21_Abstract
Pratik22_Interface
Pratik23_Iterator
Pratik24_Set_HashSet
Pratik25_Queue_Degu

```
1 package JavaKonusalSorular.Pratik13_DoWhileLoop;
2
3 import java.util.Scanner;
4
5 public class Pr01 {
6
7     public static void main(String[] args) {
8
9         // Kullanicidan iki pozitif sayı isteyin
10        // kullanicı negatif sayı girdiginde
11        // girilen negatif sayıları yok sayı, yeniden değer isteyin
12        // kullanicı doğru giriş yaptığından "well done" ve sayıların çarpımını yazdırın
13
14        Scanner scan = new Scanner(System.in);
15
16        System.out.println("Lutfen iki pozitif tamsayı giriniz");
17
18        int sayi1=5;
19        int sayi2=10;
20
21        do {
22            sayi1=scan.nextInt();
23            sayi2=scan.nextInt();
24            if (sayi1>0 && sayi2>0) {
25                System.out.println("well done \n girilen sayıların çarpımı : " + (sayi1*sayi2));
26            } else {
27                System.out.println("lutfen pozitif iki sayı giriniz");
28            }
29
30        } while (!(sayi1>0 && sayi2>0));
31
32        scan.close();
33
34    }
35}
```

C:\Users\HP\.jdks\openjdk-18.0.2\bin\java.exe "-javaagent:C:\Users\HP\IdeaProjects\Java2021allfiles\target\javaagent.jar" -Dfile.encoding=UTF-8
Lutfen iki pozitif tamsayı giriniz
25
-75
lutfen pozitif iki sayı giriniz
65
85
well done
girilen sayıların çarpımı : 5525

Process finished with exit code 0

Git Debug TODO Problems Terminal Services Build

All files are up-to-date (a minute ago) 12:1 CRLF windows-1254 Tab* master

File Edit View Navigate Code Refactor Build Run Tools Git Window Help Java2021allfiles - Pr02.java [Java2021allfiles]

Java2021allfiles > src > JavaKonusalSorular > Pratik13_DoWhileLoop > Pr02 > main

Proj... Pr25.java Pr26.java Pr27.java Pr01.java Pr02.java

Run: Pr25 Pr02

Notifications

Project Commit Pull Requests Bookmarks Structure

```
1 package JavaKonusalSorular.Pratik13_DoWhileLoop;
2 import java.util.Scanner;
3 public class Pr02 {
4     public static void main(String[] args) {
5         /* Soru ; Kullanicidan toplamak üzere pozitif sayilar isteyin,
6            islemi bitirmek icin 0 a basmasini souleyin.
7            Kullanici 0 a bastiginda toplam kac pozitif sayı girdigini
8            ve girdigi pozitif sayilarin toplaminin kac oldugunu yazdirin.
9            kullanici negatif sayı girerse ignore(isleme olmayin) edin. */
10
11        double sayı=5;
12        int count=0;
13        double sayılarToplami=0;
14
15        Scanner scan = new Scanner(System.in);
16        do {
17            System.out.println("Lutfen toplamak icin pozitif sayilar girin "
18                + "\nislemi bitirmek icin 0'a basin");
19            sayı=scan.nextDouble();
20
21            // kullanicidan aldigim sayiyi pozitif mi diye kontrol edelim
22            if (sayı>0) {
23                sayılarToplami+=sayı;
24                count++;
25            } else if(sayı<0){
26                System.out.println("pozitif sayı girmeliyiniz "
27                    + "\nbu sayı negatif oldugu icin yok sayiyorum");
28            }
29
30        } while(sayı!=0);
31        System.out.println("girdiginiz sayilardan " + count + " tanesi pozitifdi "
32            + "\nve pozitif sayilarin toplami : " + sayılarToplami);
33
34        scan.close();
35    }
}
```

C:\Users\HP\.jdks\openjdk-18.0.2\bin\java.exe "-javaagent:C:\Users\HP\IdeaProjects\Java2021allfiles\target\javaagent.jar" -Dfile.encoding=UTF-8 Lutfen toplamak icin pozitif sayilar girin islemi bitirmek icin 0'a basin 42 Lutfen toplamak icin pozitif sayilar girin islemi bitirmek icin 0'a basin 28 Lutfen toplamak icin pozitif sayilar girin islemi bitirmek icin 0'a basin 75 Lutfen toplamak icin pozitif sayilar girin islemi bitirmek icin 0'a basin 0 girdiginiz sayilardan 3 tanesi pozitifdi ve pozitif sayilarin toplami : 145.0 Process finished with exit code 0

Git Debug TODO Problems Terminal Services Build

All files are up-to-date (a minute ago) 18:1 CRLF windows-1254 Tab* master

File Edit View Navigate Code Refactor Build Run Tools Git Window Help Java2021allfiles - Pr03.java [Java2021allfiles]

Java2021allfiles > src > JavaKonusalSorular > Pratik13_DoWhileLoop > Pr03

Project Commit Pull Requests Bookmarks Structure

Proj... Pr25.java Pr26.java Pr27.java Pr01.java Pr02.java Pr03.java

Run: Pr03

Notifications

Pr03.java

```
1 package JavaKonusalSorular.Pratik13_DoWhileLoop;
2 import java.util.Scanner;
3 public class Pr03 {
4     public static void main(String[] args) {
5
6         // TODO STRING OLAN PIN kodunuzu kontrol eden bir kod yazınız.
7
8         String pin_sys = "Hu.180884";
9
10        Scanner scan = new Scanner(System.in);
11        System.out.print("Lütfen Pin kodunuzu giriniz: ");
12        String pin = scan.nextLine();
13
14        int kalanHak = 3;
15
16        do {
17
18            if (pin_sys.equals(pin)){
19                System.out.println("Başarı ile giriş yaptınız...");
20                break;
21            }
22            else {
23                System.out.println("Yanlış pin kodu girdiniz...");
24                kalanHak--;
25                System.out.println("Kalan hakkınız: " + kalanHak);
26            }
27
28        }while (kalanHak > 0);
29        if (kalanHak == 0)
30            System.out.println("Giriş hakkınız bitti...");
31
32    }
33
34}
```

C:\Users\HP\.jdks\openjdk-18.0.2\bin\java.exe "-javaagent:C:\Users\HP\IdeaProjects\Java2021allfiles\target\javaagent.jar" -Dfile.encoding=UTF-8 Lütfen Pin kodunuzu giriniz: Hu.180884 Başarı ile giriş yaptınız... Process finished with exit code 0

Git Debug TODO Problems Terminal Services Build

Build completed successfully in 42 sec, 377 ms (moments ago)

2:26 LF UTF-8 4 spaces master

File Edit View Navigate Code Refactor Build Run Tools Git Window Help Java2021allfiles - Pr05.java [Java2021allfiles]

Java2021allfiles > src > JavaKonusalSorular > Pratik13_DoWhileLoop > Pr05

Proj... java < Pr27.java < Pr01.java < Pr02.java < Pr03.java < Pr04.java < Pr05.java < Run: Pr05 < Notifications

Project Commit Pull Requests Bookmarks Structure

Pratik03_AritmetikOparatörler
Pratik04_ArtırmaAzaltıcı
Pratik05_Mantiksalveil
Pratik06_Modulus
Pratik07_ScannerClass
Pratik08_IfStatements
Pratik09_Ternary
Pratik10_SwitchCase
Pratik11_ForLoop
Pratik12_WhileLoop
Pratik13_DoWhileLoop
Pr01
Pr02
Pr03
Pr04
Pr05
Pr06
Pr07
Pratik14_Arrays
Pratik15_ArrayList
Pratik16_Constructors
Pratik17_Encapsulation
Pratik18_Inheritance
Pratik19_OVERRIDE
Pratik20_Exceptions
Pratik21_Abstract
Pratik22_Interface
Pratik23_Iterator
Pratik24_Set_HashSet
Pratik25_Queue_Degu

```
package JavaKonusalSorular.Pratik13_DoWhileLoop;
import java.util.Scanner;
public class Pr05 {
    /* Kullanicidan alınan bir sayının basamak değerlerinin toplamını
     * while loop ile hesaplayan bir method yazınız. */
    public static void main(String[] args) {

        Scanner scan = new Scanner(System.in);
        System.out.print("Lütfen bir sayı giriniz : ");
        int sayı = scan.nextInt();
        basamakToplaDoWhile(sayı);
        basamakToplaWhile(sayı);
    }

    private static int basamakToplaDoWhile(int sayı) {
        int toplam = 0;
        do {
            toplam += sayı % 10;
            sayı = sayı / 10;
            System.out.println("Basamağın Toplami = " + toplam + "--> kalan sayı = " + sayı);
        }
        while (sayı > 0);
        System.out.println("Girilen sayının basamak toplamı doWhile çözümü = " + toplam);
        return toplam;
    }

    public static int basamakToplaWhile(int sayı) {
        int toplam = 0;
        while (sayı != 0) {
            toplam += sayı % 10;
            sayı /= 10;
        }
        System.out.println("Girilen sayının basamak toplamı While çözümü = " + toplam);
        return toplam;
    }
}
```

Run: Pr05 < Notifications

C:\Users\HP\.jdks\openjdk-18.0.2\bin\java.exe "-javaagent:C:\Users\HP\IdeaProjects\Java2021allfiles\target\javaagent.jar" -Dfile.encoding=UTF-8 -jar C:\Users\HP\IdeaProjects\Java2021allfiles\target\classes.jar

Lütfen bir sayı giriniz : 587

Basamağın Toplami = 7--> kalan sayı = 58

Basamağın Toplami = 15--> kalan sayı = 5

Basamağın Toplami = 20--> kalan sayı = 0

Girilen sayının basamak toplamı doWhile çözümü = 20

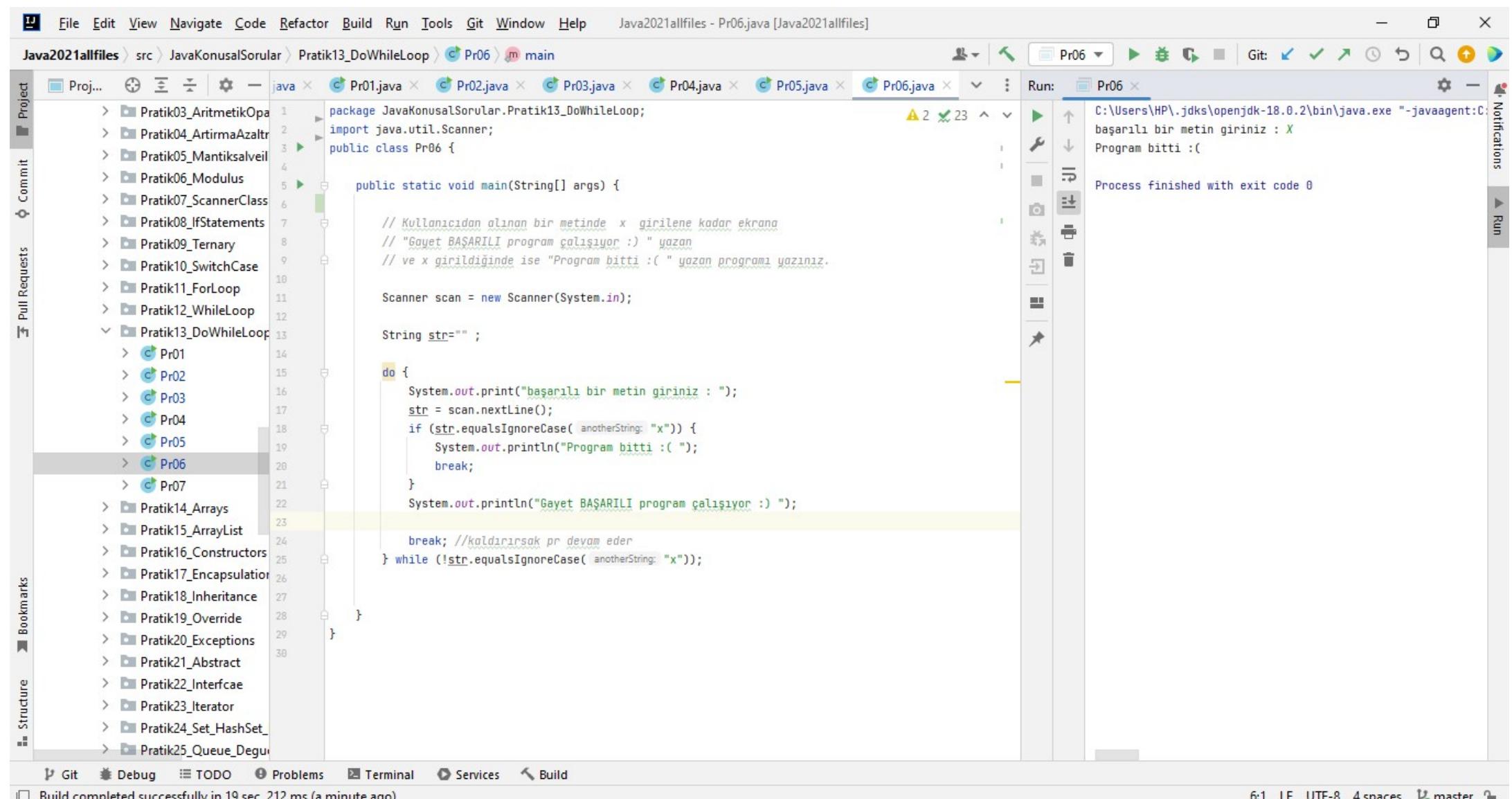
Girilen sayının basamak toplamı While çözümü = 20

Process finished with exit code 0

Git Debug TODO Problems Terminal Services Build

All files are up-to-date (a minute ago)

14:59 LF UTF-8 4 spaces master



File Edit View Navigate Code Refactor Build Run Tools Git Window Help Java2021allfiles - Pr06.java [Java2021allfiles]

Java2021allfiles > src > JavaKonusalSorular > Pratik13_DoWhileLoop > Pr06 > main

Proj... java Pr01.java Pr02.java Pr03.java Pr04.java Pr05.java Pr06.java Run: Pr06

Project Commit Pull Requests Bookmarks Structure

Pratik03_AritmetikOpa
Pratik04_ArtirmaAzaltr
Pratik05_Mantiksalveil
Pratik06_Modulus
Pratik07_ScannerClass
Pratik08_IfStatements
Pratik09_Ternary
Pratik10_SwitchCase
Pratik11_ForLoop
Pratik12_WhileLoop
Pratik13_DoWhileLoop
Pr01
Pr02
Pr03
Pr04
Pr05
Pr06
Pr07
Pratik14_Arrays
Pratik15_ArrayList
Pratik16_Constructors
Pratik17_Encapsulation
Pratik18_Inheritance
Pratik19_Override
Pratik20_Exceptions
Pratik21_Abstract
Pratik22_Interface
Pratik23_Iterator
Pratik24_Set_HashSet
Pratik25_Queue_Degu

1 package JavaKonusalSorular.Pratik13_DoWhileLoop;
2 import java.util.Scanner;
3 public class Pr06 {
4
5 public static void main(String[] args) {
6
7 // Kullanıcıdan alınan bir metinde x girilene kadar ekrana
8 // "Gayet BAŞARILI program çalışıyor :) " yazan
9 // ve x girildiğinde ise "Program bitti :(" yazan programı yazınız.
10
11 Scanner scan = new Scanner(System.in);
12
13 String str="";
14
15 do {
16 System.out.print("başarılı bir metin giriniz : ");
17 str = scan.nextLine();
18 if (str.equalsIgnoreCase(anotherString: "x")) {
19 System.out.println("Program bitti :(");
20 break;
21 }
22 System.out.println("Gayet BAŞARILI program çalışıyor :) ");
23
24 break; // kaldırırsak pr devam eder
25 } while (!str.equalsIgnoreCase(anotherString: "x"));
26
27 }
28 }
29 }
30 }

C:\Users\HP\.jdks\openjdk-18.0.2\bin\java.exe "-javaagent:C:\Users\HP\OneDrive\JavaKonusalSorular\JavaKonusalSorular.jar" -Dfile.encoding=UTF-8
başarılı bir metin giriniz : Sizi Seviyoruz
Gayet BAŞARILI program çalışıyor :)
Process finished with exit code 0

Git Debug TODO Problems Terminal Services Build

All files are up-to-date (moments ago)

6:1 LF UTF-8 4 spaces master

File Edit View Navigate Code Refactor Build Run Tools Git Window Help Java2021allfiles - Pr07.java [Java2021allfiles]

Java2021allfiles > src > JavaKonusalSorular > Pratik13_DoWhileLoop > Pr07 > main

Project Commit Pull Requests Bookmarks Structure

Pr27.java X Pr01.java X Pr02.java X Pr03.java X Pr04.java X Pr05.java X Pr06.java X Pr07.java X Run: Pr07 X

1 63

```
public static void main(String[] args) {
    /* Kullanicidan sayilar girmesini isteyin
     * ve girdigi sayilari toplayip yazdirin.
     * yeni sayı isteyin
     * girilen sayilarin toplami 100 'u gecerse
     * "... kere sayı girdin. Bu kadar sayı yeter" yazdirin ve oyunu bitirin */

    Scanner scan = new Scanner(System.in);
    int toplam = 0;
    int count = 0;
    int sayı = 0;

    do {
        System.out.println("0 harici sayilarinizi girin ve bittiği zaman 0'a basınız");
        sayı = scan.nextInt();
        count++;
        toplam+=sayı;
        if (toplam>100) {
            System.out.println(count + " adet sayı girdiniz toplamı " + toplam + " Bu kadar sayı yeter..");
            System.out.println("GAME OVER");
            break;
        }
    }while(toplam<100 && sayı!=0);
    if(toplam<100) {
        System.out.println(count + " Adet sayı yazdin " + "toplamları " + toplam);
        do {
            System.out.println("Toplam 100'u gecmedi bir daha yazarsın misin ? Bittiği zaman 0'a bas");
            sayı = scan.nextInt();
            count++;
            toplam+=sayı;
            if (toplam>100) {
                System.out.println(count + " adet sayı girdiniz toplamı " + toplam + " Bu kadar sayı yeter..");
                System.out.println("GAME OVER");
                break;
            }
        }
    }
}
```

C:\Users\HP\.jdks\openjdk-18.0.2\bin\java.exe "-javaagent:C:\Program Files\YourKit\YourKit Java 2021.1\agent\yourkit.jar" -Djava.awt.headless=true -Dfile.encoding=UTF-8 -jar C:\Users\HP\IdeaProjects\Java2021allfiles\out\artifacts\Java2021allfiles_07\run\Pr07.jar

0 harici sayilarinizi girin ve bittiği zaman 0'a basınız
15
0 harici sayilarinizi girin ve bittiği zaman 0'a basınız
36
0 harici sayilarinizi girin ve bittiği zaman 0'a basınız
85
3 adet sayı girdiniz toplamı 136 Bu kadar sayı yeter..
GAME OVER

Process finished with exit code 0

Git Debug TODO Problems Terminal Services Build

All files are up-to-date (a minute ago)

7:45 LF windows-1254 4 spaces master

File Edit View Navigate Code Refactor Build Run Tools Git Window Help Java2021allfiles - Pr07.java [Java2021allfiles]

Java2021allfiles > src > JavaKonusalSorular > Pratik13_DoWhileLoop > Pr07

Project Commit Pull Requests Bookmarks Structure

Pr27.java X Pr01.java X Pr02.java X Pr03.java X Pr04.java X Pr05.java X Pr06.java X Pr07.java X

Run: Pr07 X

Notifications Run

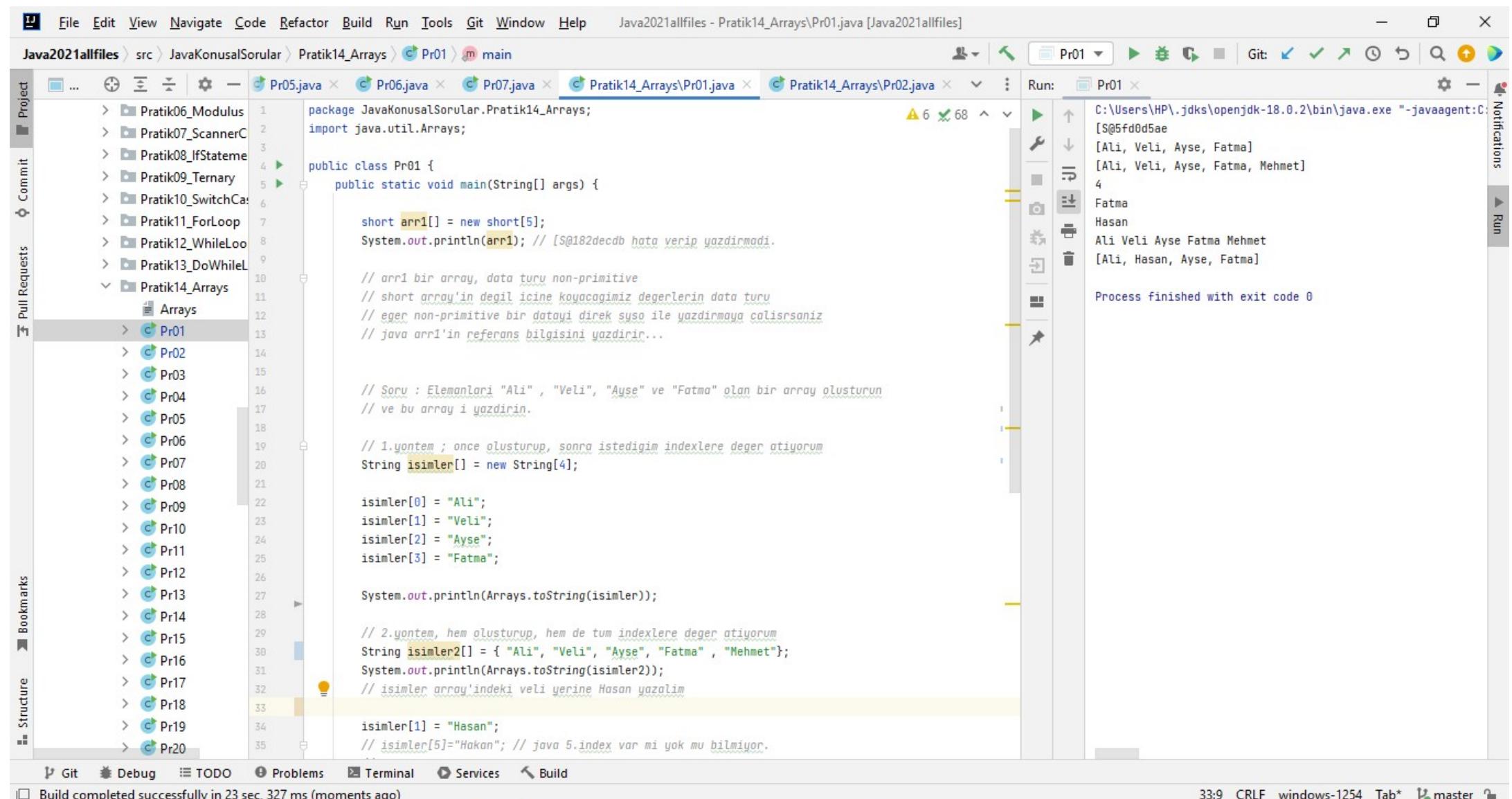
```
        }
    } while(toplam<100 && sayi!=0);
    System.out.println("Uzgunum 100'u gecemedin " +count+ " adet sayilarinin toplami " + toplam);
    System.out.println("GAME OVER");
}
if (toplam>=100) {
    System.out.println(count + " adet sayı girdiniz . Bu kadar sayı yeter..");
    System.out.println("Toplami " + toplam);
    System.out.println("GAME OVER");
}
```

C:\Users\HP\.jdks\openjdk-18.0.2\bin\java.exe "-javaagent:C:\Users\HP\IdeaProjects\Java2021allfiles\target\javaagent.jar" -Dfile.encoding=UTF-8 0 harici sayilarinizi girin ve bittiği zaman 0'a basınız
15 0 harici sayilarinizi girin ve bittiği zaman 0'a basınız
36 0 harici sayilarinizi girin ve bittiği zaman 0'a basınız
85 3 adet sayı girdiniz toplamı 136 Bu kadar sayı yeter..
GAME OVER

Process finished with exit code 0

Git Debug TODO Problems Terminal Services Build

All files are up-to-date (2 minutes ago) 74:1 LF windows-1254 4 spaces master



File Edit View Navigate Code Refactor Build Run Tools Git Window Help Java2021allfiles - Pratik14_Arrays\Pr01.java [Java2021allfiles]

Java2021allfiles > src > JavaKonusalSorular > Pratik14_Arrays > Pr01

Project Commit Pull Requests Bookmarks Structure

Pr05.java x Pr06.java x Pr07.java x Pratik14_Arrays\Pr01.java x Pratik14_Arrays\Pr02.java x Run: Pr01 x

isimler[1] = "Hasan";
// isimler[5]="Hakan"; // java 5.index var mi yok mu bilmiyor.
// syntax hatalisindan sorun olmadigini icin CTE vermiyor
// ama run ettigimizde 5.index'i bulamadigini icin RTE verir...

System.out.println(isimler.length); // 4
System.out.println(isimler[3]); // Fatma
System.out.println(isimler[1]); // Hasan

// tum elemanlari yazdirma
// 1.yol loop kullanma
// sadece degerleri yazdirmis oluruz

for (int i = 0; i < isimler2.length; i++) {
 System.out.print(isimler2[i] + " ");
}
System.out.println("");

// 2.yol Arrays class'indan yardim aliriz
System.out.println(Arrays.toString(isimler));

Run: C:\Users\HP\.jdks\openjdk-18.0.2\bin\java.exe "-javaagent:C:\S@5fd0d5ae [Ali, Veli, Ayse, Fatma] [Ali, Veli, Ayse, Fatma, Mehmet] 4 Fatma Hasan Ali Veli Ayse Fatma Mehmet [Ali, Hasan, Ayse, Fatma]
Process finished with exit code 0

Git Debug TODO Problems Terminal Services Build

Build completed successfully in 23 sec, 327 ms (a minute ago) 67:1 CRLF windows-1254 Tab* master

File Edit View Navigate Code Refactor Build Run Tools Git Window Help Java2021allfiles - Pratik14_Arrays\Pr02.java [Java2021allfiles]

Java2021allfiles > src > JavaKonusalSorular > Pratik14_Arrays > Pr02

Project Commit Pull Requests Bookmarks Structure

Pr05.java x Pr06.java x Pr07.java x Pratik14_Arrays\Pr01.java x Pratik14_Arrays\Pr02.java x

Run: Pr02 x

C:\Users\HP\.jdks\openjdk-18.0.2\bin\java.exe "-javaagent:C:\Users\HP\IdeaProjects\Java2021allfiles\target\javaagent.jar" -Dfile.encoding=UTF-8 -jar C:\Users\HP\IdeaProjects\Java2021allfiles\target\classes.jar

[0, 0, 0, 0, 0]
[0, 0, 1, 0, 0]
[0, 0, 0, 0, 0]
Process finished with exit code 0

```
1 package JavaKonusalSorular.Pratik14_Arrays;
2 import java.util.Arrays;
3 public class Pr02 {
4
5     public static void main(String[] args) {
6
7         int arr[] = new int[5];
8
9         System.out.println(Arrays.toString(arr)); // [0, 0, 0, 0, 0]
10
11        // Bir kez olusturdugum Array in sonradan uzunlugunu degistirebilir miyim ?
12
13        // [0, 0, 0, 0, 5]
14
15        // arr[5]=5;
16
17        // array'in length'i sonradan degistirilemez
18        // array'i kullanissiz yapan da bu ozelligidir
19
20        arr[2]=1;
21
22        System.out.println(Arrays.toString(arr)); // [0, 0, 1, 0, 0]
23
24        arr = new int[6]; // bu ekleme yapmaz, deger olarak 6 elemntlik yeni bir array atar
25
26        System.out.print(Arrays.toString(arr)); // [0, 0, 0, 0, 0, 0]
27
28    }
29
30 }
```

Git Debug TODO Problems Terminal Services Build

Build completed successfully in 20 sec, 477 ms (moments ago)

6:1 CRLF windows-1254 Tab* master

File Edit View Navigate Code Refactor Build Run Tools Git Window Help Java2021allfiles - Pratik14_Arrays\Pr03.java [Java2021allfiles]

Java2021allfiles > src > JavaKonusalSorular > Pratik14_Arrays > Pr03 > main

Project Commit Pull Requests Bookmarks Structure

Pr07.java Pratik14_Arrays\Pr01.java Pratik14_Arrays\Pr02.java Pratik14_Arrays\Pr03.java

Run: Pr03

Notifications Run

```
package JavaKonusalSorular.Pratik14_Arrays;
import java.util.Arrays;
public class Pr03 {
    public static void main(String[] args) {
        /* Soru : Verilen 3 elemanli bir array in
        tum elemanlarini bir soldaki konuma tasiyacak bir program yazin.
        Ornek; array [1,2,3] ise output [2, 3, 1] olacak. */
        int arr[]={1,2,3};
        int temp=arr[0];
        arr[0]=arr[1];
        arr[1]=arr[2];
        arr[2]=temp;
        System.out.println(Arrays.toString(arr)); // [2, 3, 1]
        // Array kac elemlili olursa olsun, tum elementleri bir sola tasiyacak kod yaziniz
        int arr2[]={1,3,9,4,5,8,9,12,15,87};
        temp=arr2[0];
        for (int i = 0; i < arr2.length-1; i++) {
            arr2[i]=arr2[i+1];
        }
        System.out.println(Arrays.toString(arr2)); // [3, 9, 4, 5, 8, 9, 12, 15, 87]
        arr2[arr2.length-1]=temp;
        System.out.println(Arrays.toString(arr2)); // [3, 9, 4, 5, 8, 9, 12, 15, 87, 1]
    }
}
```

C:\Users\HP\.jdks\openjdk-18.0.2\bin\java.exe "-javaagent:C:\Program Files\Java\VisualVM\lib\visualvm-agent.jar" -Dfile.encoding=UTF-8 Pr03
[2, 3, 1]
[3, 9, 4, 5, 8, 9, 12, 15, 87, 87]
[3, 9, 4, 5, 8, 9, 12, 15, 87, 1]
Process finished with exit code 0

Git Debug TODO Problems Terminal Services Build

Build completed successfully in 36 sec, 512 ms (moments ago) 25:13 CRLF windows-1254 Tab* master

File Edit View Navigate Code Refactor Build Run Tools Git Window Help Java2021allfiles - Pratik14_Arrays\Pr04.java [Java2021allfiles]

Java2021allfiles > src > JavaKonusalSorular > Pratik14_Arrays > Pr04 > main

Project Commit Pull Requests Bookmarks Structure

Pr01.java < Pratik14_Arrays\Pr02.java < Pratik14_Arrays\Pr03.java < Pratik14_Arrays\Pr04.java

Run: Pr04

Notifications

Code Editor:

```
1 package JavaKonusalSorular.Pratik14_Arrays;
2
3 public class Pr04 {
4
5     public static void main(String[] args) {
6
7         // Soru : Verilen bir array in tum elemanlarini toplayan bir program yazalim.
8
9
10        int arr[] = {2,4,6,8,10};
11
12        int toplam=0;
13
14        for (int i = 0; i < arr.length; i++) {
15            toplam+=arr[i];
16        }
17        System.out.println("Verilen array'deki tum elementlerin toplami : " + toplam);
18
19    }
20
21
22 }
```

Output:

```
C:\Users\HP\.jdks\openjdk-18.0.2\bin\java.exe "-javaagent:C:\Users\HP\IdeaProjects\Java2021allfiles\target\javaagent.jar" -Dfile.encoding=UTF-8 Pr04
Verilen array'deki tum elementlerin toplami : 30
Process finished with exit code 0
```

Git:

Build completed successfully in 26 sec, 411 ms (moments ago)

5:1 CRLF windows-1254 Tab* master

File Edit View Navigate Code Refactor Build Run Tools Git Window Help Java2021allfiles - Pratik14_Arrays\Pr05.java [Java2021allfiles]

Java2021allfiles > src > JavaKonusalSorular > Pratik14_Arrays > Pr05 > main

Project Commit Pull Requests Bookmarks Structure

Pr01.java X Pr02.java X Pratik14_Arrays\Pr03.java X Pratik14_Arrays\Pr04.java X Pratik14_Arrays\Pr05.java X Run: Pr05 X

2 44

```
1 package JavaKonusalSorular.Pratik14_Arrays;
2 import java.util.Arrays;
3 public class Pr05 {
4
5     public static void main(String[] args) {
6         // Verilen bir array'i büyükten küçüğe sıralayan bir method yazınız
7
8         int arr[] = { 3, 15, 10, 11, 9, 1, 25 };
9
10        arr = arrayiSirala(arr);
11        System.out.println("sıralanmış hali : " + Arrays.toString(arr)); // sıralanmış hali : [1, 3, 9, 10, 11, 15, 25]
12
13        // System.out.println(Arrays.toString(arrayiTerenSirala(arr))); // sonucu sadce yazdırırmak istersek
14
15        arr = arrayiTerenSirala(arr);
16        System.out.println("Tersten sıralanmış hali : " + Arrays.toString(arr));
17        // Tersten sıralanmış hali : [25, 15, 11, 10, 9, 3, 1]
18    }
19
20    @
21    private static int[] arrayiTerenSirala(int[] arr) {
22        int[] temp = new int[arr.length]; // eski array ile aynı uzunlukta bir array oluşturduk
23        for (int i = 0; i < temp.length; i++) {
24            temp[i] = arr[arr.length - 1 - i];
25        }
26        // temp array'i istedigim gibi arr'nin ters sıralanışı oldu
27        // bunu main method'a dondurmem (return) lazım
28        return temp;
29    }
30
31    private static int[] arrayiSirala(int[] arr) {
32        // öncelikle array'i küçükten büyüğe sıralamalıyız
33        Arrays.sort(arr);
34        return arr;
35    }
}
```

C:\Users\HP\.jdks\openjdk-18.0.2\bin\java.exe "-javaagent:C:\siralanmis hali : [1, 3, 9, 10, 11, 15, 25]
Tersten siralanmis hali : [25, 15, 11, 10, 9, 3, 1]

Process finished with exit code 0

Git Debug TODO Problems Terminal Services Build

All files are up-to-date (moments ago) 17:9 CRLF windows-1254 Tab* master

File Edit View Navigate Code Refactor Build Run Tools Git Window Help Java2021allfiles - Pratik14_Arrays\Pr06.java [Java2021allfiles]

Java2021allfiles > src > JavaKonusalSorular > Pratik14_Arrays > Pr06 > main

Project Commit Pull Requests Bookmarks Structure

Pr03.java Pratik14_Arrays\Pr04.java Pratik14_Arrays\Pr05.java Pratik14_Arrays\Pr06.java Run: Pr06

Pratik06_Modulus Pratik07_ScannerCI Pratik08_IfStatement Pratik09_Ternary Pratik10_SwitchCas Pratik11_ForLoop Pratik12_WhileLoop Pratik13_DoWhileLo Pratik14_Arrays
Pr01 Pr02 Pr03 Pr04 Pr05 Pr06 Pr07 Pr08 Pr09 Pr10 Pr11 Pr12 Pr13 Pr14 Pr15 Pr16 Pr17 Pr18 Pr19 Pr20

```
1 package JavaKonusalSorular.Pratik14_Arrays;
2 import java.util.Arrays;
3 public class Pr06 {
4
5     public static void main(String[] args) {
6         String str = "Java, candir.";
7         // split method'u bize bir array doner
8         // donek array'i ya direk yazdirmalıyız
9         System.out.println(Arrays.toString(str.split( regex: ","))); // [Java, candir.]
10        // veya method'dan donek String barindiran bir array oldugundan
11        // bir array olusturup ona assign edebiliriz
12
13        String bolunmusKelimeArray[] = str.split( regex: ","); // Java _candir
14        System.out.println(bolunmusKelimeArray[1]); // _candir.
15
16        String bolunmusKelimeArray2[] = str.split( regex: "a");
17        System.out.println(Arrays.toString(bolunmusKelimeArray2)); // [J, v, , c, ndir.]
18        System.out.println(bolunmusKelimeArray2.length()); // 4
19
20        String bolunmusKelimeArray3[] = str.split( regex: ""); // String'i karakterlere ayırir
21        System.out.println(Arrays.toString(bolunmusKelimeArray3));
22
23        String cumle = "Java ogren, rahat yasa"; // cumle kac kelimedenden olusur ?
24        String kelimeArrayi[] = cumle.split( regex: " ");
25        System.out.println("Cumledeki kelime sayisi : " + kelimeArrayi.length());
26
27        // harf sayisini
28        String cumle2 = cumle.replaceAll( regex: "\\\W", replacement: "");
29        System.out.println(cumle2);
30        System.out.println(cumle2.length()); // 18
31
32        String harfArrayi[] = cumle2.split( regex: "");
33        System.out.println(harfArrayi.length()); // 18
34    }
35 }
```

C:\Users\HP\.jdks\openjdk-18.0.2\bin\java.exe "-javaagent:C:\Program Files\Java\VisualVM\jvisualvm.jar" -Dfile.encoding=UTF-8 JavaKonusalSorular.Pratik14_Arrays.Pr06

[Java, candir.]
candir.
[J, v, , c, ndir.]
4
[J, a, v, a, , , c, a, n, d, i, r, .]
Cumledeki kelime sayisi : 4
Javaogrenrahatyasa
18
18

Process finished with exit code 0

Git Debug TODO Problems Terminal Services Build

Build completed successfully in 19 sec, 485 ms (moments ago) 31:1 CRLF windows-1254 Tab* master

File Edit View Navigate Code Refactor Build Run Tools Git Window Help Java2021allfiles - Pratik14_Arrays\Pr07.java [Java2021allfiles]

Java2021allfiles > src > JavaKonusalSorular > Pratik14_Arrays > Pr07 > main

Project Commit Pull Requests Bookmarks Structure

Pr04.java X Pratik14_Arrays\Pr05.java X Pratik14_Arrays\Pr06.java X Pratik14_Arrays\Pr07.java X

Run: Pr07 X

Notifications Run

```
1 package JavaKonusalSorular.Pratik14_Arrays;
2
3 import java.util.Arrays;
4
5 public class Pr07 {
6
7     public static void main(String[] args) {
8         // "java ögren, hayatı yasa" kelime kelime terse cevirme
9
10        String str = "java ögren, hayatı yasa"; // string olarak assign ettim.
11
12        String bolunmusStr[] = str.split( regex: " " ); // split yöntemi ile arrayi kelimelere boldum.
13        System.out.println(Arrays.toString(bolunmusStr)); // burada bölünmüş elementleri yazdırıldım.
14
15        // burada böldüğüm arrayi tersten yeniden oluşturacağım methoda atamak için
16        // yaptım.
17        String tersCumle = strTersten(bolunmusStr); // burada bolunmuş arrayimi tersten methoduna attım.
18        System.out.println(tersCumle); // burada bi üstte atadığım methodu yazdırıyorum.
19
20    private static String strTersten(String bolunmusStr[]) { // tersten methodum bu
21
22        String temp = ""; // temporary yani geçici bir String oluştururdum
23        // deklare ettim uzunluğunu ise bolunmuş arrayimle aynı
24        for (int i = 0; i < bolunmusStr.length; i++) {
25            // forloop oluştururdum i 0 dan başladığında kelimeyi sondan başa doğru temp'e ekledim
26            temp += bolunmusStr[bolunmusStr.length - 1 - i];
27            temp += " ";
28        }
29        return temp; // burada temp kelime kelime tersten yazılmış cümle oldu
30
31    }
32}
```

C:\Users\HP\.jdks\openjdk-18.0.2\bin\java.exe "-javaagent:C:\Program Files\Java\Java Mission Control\jmc.jar" [java, ögren,, hayatı, yasa]
yasa hayatı ögren, java
Process finished with exit code 0

Git Debug TODO Problems Terminal Services Build

Typo: In word 'atadım'

16:104 CRLF UTF-8 Tab* master

File Edit View Navigate Code Refactor Build Run Tools Git Window Help Java2021allfiles - Pr09.java [Java2021allfiles]

Java2021allfiles > src > JavaKonusalSorular > Pratik14_Arrays > Pr09

Project Commit Pull Requests Bookmarks Structure

Pr04.java Pr05.java Pr06.java Pratik14_Arrays\Pr07.java Pr08.java Pr09.java

Run: Pr09

Notifications Run

```
package JavaKonusalSorular.Pratik14_Arrays;
import ...;

public class Pr09 {
    // Kullanicin girdigi sayi kadar int array olusturan ve array elemanlarini kullanidan alan
    // ve girilen array elemanlarinin en buyuk ile en kucuk elemaninin arasinki farki gösteren
    // java programi yazin
    public static void main(String[] args) {

        Scanner scan = new Scanner(System.in);
        System.out.print("Kac elemanli bir array olusturmak istiyorsunuz? : ");
        int size = scan.nextInt();

        int sayilar[] = new int[size];

        for(int i = 0; i<sayilar.length; i++){
            System.out.print("Lutfen Array'in " + (i+1) + ".ci elemanini giriniz : ");
            // i+0'i kullanici 0.eleman ne demesin diye yazdik
            sayilar[i] = scan.nextInt(); // bu satirda da kullanici dongu bitene eleman girer
        }

        Arrays.sort(sayilar);
        System.out.println(Arrays.toString(sayilar));

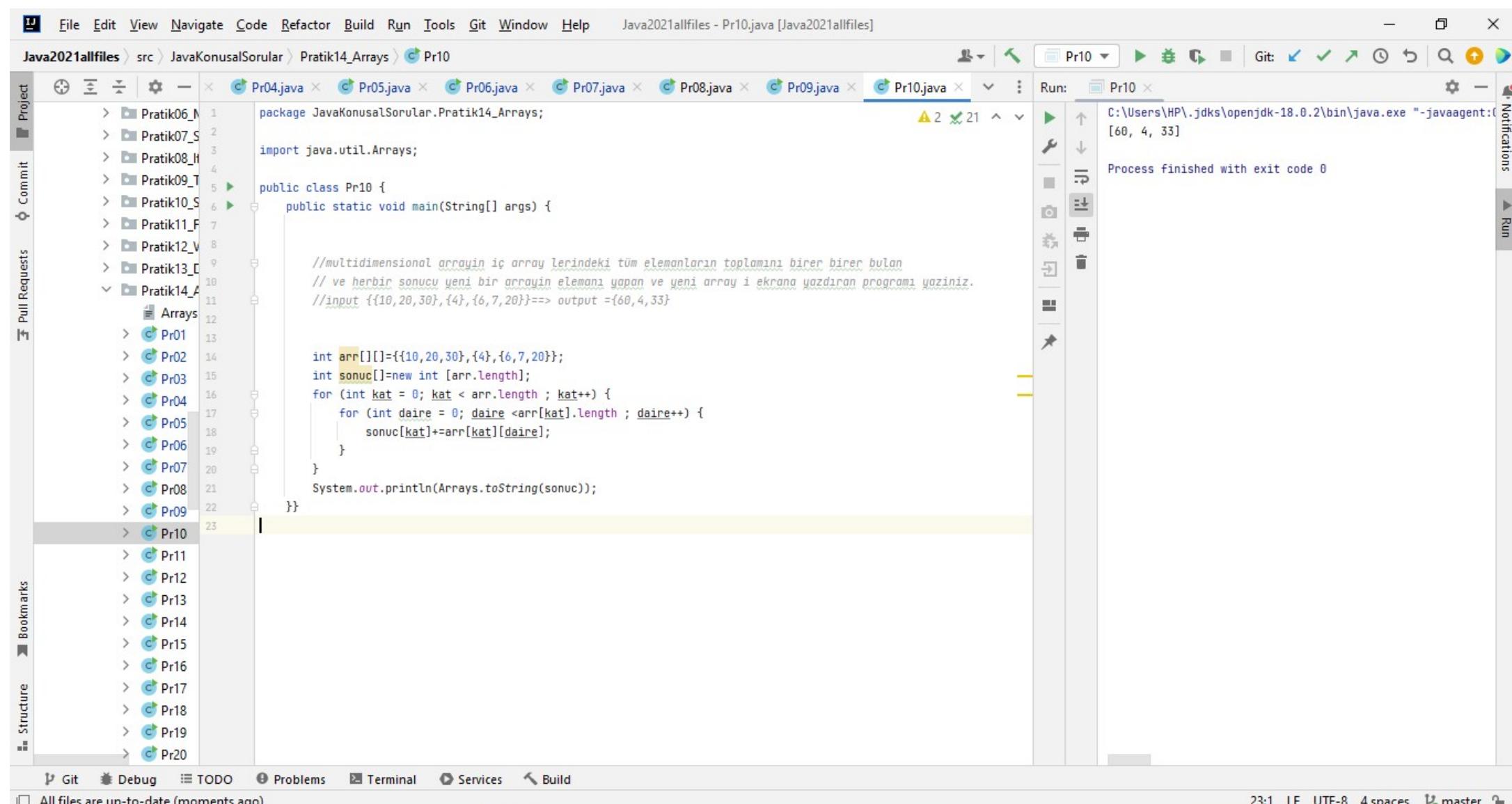
        System.out.println("girdiginiz sayilerin max ile min farki : "+(sayilar[size-1] - sayilar[0]));
    }
}
```

C:\Users\HP\.jdks\openjdk-18.0.2\bin\java.exe "-javaagent:C:\Users\HP\IdeaProjects\Java2021allfiles\target\javaagent.jar" -Dfile.encoding=UTF-8 Kac elemanli bir array olusturmak istiyorsunuz? : 4 Lutfen Array'in 1.ci elemanini giriniz : 28 Lutfen Array'in 2.ci elemanini giriniz : 42 Lutfen Array'in 3.ci elemanini giriniz : 75 Lutfen Array'in 4.ci elemanini giriniz : 2 [2, 28, 42, 75] girdiginiz sayilerin max ile min farki : 73

Process finished with exit code 0

Git Debug TODO Problems Terminal Services Build

Build completed successfully in 26 sec, 16 ms (moments ago) 11:1 LF UTF-8 Tab* master



File Edit View Navigate Code Refactor Build Run Tools Git Window Help Java2021allfiles - Pr11.java [Java2021allfiles]

Java2021allfiles > src > JavaKonusalSorular > Pratik14_Arrays > Pr11 > main

Project Commit Pull Requests Bookmarks Structure

Pr06.java Pr07.java Pr08.java Pr09.java Pr10.java Pr11.java

Run: Pr11

C:\Users\HP\.jdks\openjdk-18.0.2\bin\java.exe "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA 2021.3.1\lib\idea_rt.jar" -Dfile.encoding=UTF-8 -jar "C:\Users\HP\OneDrive\שולחן העבודה\Java2021allfiles\out\artifacts\Java2021allfiles_jar\Java2021allfiles.jar" -1, -2, 3, -4, 5, 6, method for cozumu : [-1, -2, 3, -4, 5, 6]
Process finished with exit code 0

```
package JavaKonusalSorular.Pratik14_Arrays;  
import java.util.Arrays;  
  
public class Pr11 {  
  
    public static void main(String[] args) {  
        //bir int Array elemanlarinin işaretini(-) degistiren bir method yaziniz.  
        // input : 1,2,-3,4,-5,-6  
        //output : -1,-2,3,-4,5,6  
  
        int[] arr = {1, 2, -3, 4, -5, -6};  
  
        for (int w : arr) {  
            w *= -1;  
            System.out.print(w + ", ");  
        }  
  
        System.out.println("method for cozumu : "+Arrays.toString(sayininTersi(arr)));  
    }  
  
    public static int[] sayininTersi(int[] arr) {  
  
        for (int i = 0; i < arr.length; i++) {  
            arr[i] *= -1;  
        }  
        return arr;  
    }  
}
```

Git Debug TODO Problems Terminal Services Build

Typo: In word 'degistiren'

8:53 LF UTF-8 4 spaces master

File Edit View Navigate Code Refactor Build Run Tools Git Window Help Java2021allfiles - Pr12.java [Java2021allfiles]

Java2021allfiles > src > JavaKonusalSorular > Pratik14_Arrays > Pr12

Project Commit Pull Requests Bookmarks Structure

Pr01 Pr02 Pr03 Pr04 Pr05 Pr06 Pr07 Pr08 Pr09 Pr10 Pr11 Pr12 Pr13 Pr14 Pr15 Pr16 Pr17 Pr18 Pr19 Pr20

Pr12.java

Run: Pr12

C:\Users\HP\.jdks\openjdk-18.0.2\bin\java.exe "-javaagent:C:\Program Fi
5 ile 4 toplamı = 9
7 ile 2 toplamı = 9
-6 ile 15 toplamı = 9
8 ile 1 toplamı = 9

Process finished with exit code 0

```
1 package JavaKonusalSorular.Pratik14_Arrays;
2
3 public class Pr12 {
4
5     public static void main(String[] args) {
6
7         /*
8             * verilen bir int Arrayde toplamları istenen degere esit olan sayı çiftlerini
9             * yazdırın bir method yazınız int[] arr= {5,7,-6,4,2,15,3,8,1};
10            * int istenenToplam=9;
11            */
12
13        int[] arr = { 5, 7, -6, 4, 2, 15, 3, 8, 1 };
14        int istenenToplam = 9;
15        for (int i = 0; i < arr.length; i++) {
16            for (int j = i + 1; j < arr.length; j++) {
17                if (arr[i] + arr[j] == 9) {
18                    System.out.println(arr[i] + " ile " + arr[j] + " toplamı = " + istenenToplam);
19                }
20            }
21        }
22    }
23
24 }
```

Git Debug TODO Problems Terminal Services Build

Build completed successfully in 20 sec, 131 ms (moments ago)

24:1 LF UTF-8 Tab* master

File Edit View Navigate Code Refactor Build Run Tools Git Window Help Java2021allfiles - Pr13.java [Java2021allfiles]

Java2021allfiles > src > JavaKonusalSorular > Pratik14_Arrays > Pr13 > main

Project Commit Pull Requests Bookmarks Structure

Pr08.java Pr09.java Pr10.java Pr11.java Pr12.java Pr13.java

Run: Pr13

Notifications Run

```
1 package JavaKonusalSorular.Pratik14_Arrays;
2
3 public class Pr13 {
4     public static void main(String[] args) {
5         /*
6             * write a java program that calculates the average value of array elements
7             * Print elements that are greater than average
8             * (dizi elemanlarının ortalaması değerini hesaplayan ve
9             * ortalamadan büyük olan elemanları yazdırın bir java programı yazın)
10            * input[] = {1,2,3,4,5,6,7}
11            * Output : 4
12        */
13
14         int arr[] = {1,2,3,4,5,6,7};
15         double toplam = 0;
16
17         for (int each : arr ) {
18             toplam += each;
19         }
20         double ort = toplam /arr.length;
21         System.out.println("verilen array in ortalaması =" +ort); //4.0
22
23         for (int each : arr ) {
24             if (each > ort)
25                 System.out.println("ortalamadan büyük olanlar :" + each);
26         }
27     }
28 }
29
30
31
32 }
33 }
```

C:\Users\HP\.jdks\openjdk-18.0.2\bin\java.exe "-javaagent:C:\Program Fi
verilen array in ortalaması =4.0
ortalamadan büyük olanlar :5
ortalamadan büyük olanlar :6
ortalamadan büyük olanlar :7

Process finished with exit code 0

Git Debug TODO Problems Terminal Services Build

All files are up-to-date (moments ago) 30:6 LF UTF-8 Tab* master

File Edit View Navigate Code Refactor Build Run Tools Git Window Help Java2021allfiles - Pr14.java [Java2021allfiles]

Java2021allfiles > src > JavaKonusalSorular > Pratik14_Arrays > Pr14 > main

Project Commit Pull Requests Bookmarks Structure

Pr09.java Pr10.java Pr11.java Pr12.java Pr13.java Pr14.java

Run: Pr14

Notifications Run

```
package JavaKonusalSorular.Pratik14_Arrays;
import java.util.Arrays;
public class Pr14 {
    public static void main(String[] args) {
        /* Write a java program to find the second largest number in the array?
         * Maximum and minimum number in the array?
         * (Dizideki en büyük ikinci sayıyi, maksimum ve minimum sayiyi bulmak için bir java programı yazın)
        int[] arr = { 100, 10001, -90, 845, 8787, 898, 0, 1, -90 };
        */
        int[] arr = { 100, 10001, -90, 845, 8787, 898, 0, 1, -90 };
        Arrays.sort(arr);
        int min = arr[0];
        int max = arr[arr.length-1];
        int ikincimax = arr[arr.length-2];
        System.out.println(min); // -90
        System.out.println(max); // 10001
        System.out.println(ikincimax); // 8787
    }
}
```

C:\Users\HP\.jdks\openjdk-18.0.2\bin\java.exe "-javaagent:C:\Program Fi
-90
10001
8787

Process finished with exit code 0

Git Debug TODO Problems Terminal Services Build

Build completed successfully in 17 sec, 121 ms (moments ago)

6:9 LF UTF-8 Tab* master

File Edit View Navigate Code Refactor Build Run Tools Git Window Help Java2021allfiles - Pr15.java [Java2021allfiles]

Java2021allfiles > src > JavaKonusalSorular > Pratik14_Arrays > Pr15 > main

Project Commit Pull Requests Bookmarks Structure

Pr10.java × Pr11.java × Pr12.java × Pr13.java × Pr14.java × Pr15.java × Run: Pr15 ×

1 package JavaKonusalSorular.Pratik14_Arrays;
2 public class Pr15 {
3 public static void main(String[] args) {
4 /* Write a method that accepts a 2 dimensional array and finds the max value
 * (2 boyutlu bir diziyi kabul eden ve maksimum degeri bulan bir method yazın)
 * Input : {{1,2,3},{4,5},{6,7,8}}
 * Output : 8
 */
10
11 int arr [][]= {{1,2,-3},{41,5},{6,7,18}};
12 /*
13 * 1,2,-3 -> 0. kat
14 * 41,5 -> 1. kat
15 * 6,7,18 -> 2. kat
16 */
17 System.out.println("iki katlı array in max elemani : " + maxdegeribul(arr));
18 }
19
20 public static int maxdegeribul(int[][] arr) {
21 int max =arr [0][0];
22
23 for (int kat = 0; kat < arr.length; kat++) { //kat kontrolü
24 for (int daire= 0; daire < arr[kat].length; daire++) { //daire kontrolü
25 if (arr [kat][daire]> max) {
26 max =arr [kat][daire];
27 }
28 }
29 }
30 return max;
31 }
32 }
33 }
34 }
35 }

C:\Users\HP\.jdks\openjdk-18.0.2\bin\java.exe "-javaagent:C:\Program Fi
iki katlı array in max elemani : 41
Process finished with exit code 0

Git Debug TODO Problems Terminal Services Build

Build completed successfully in 22 sec, 37 ms (moments ago) 17:85 LF windows-1254 Tab* master

File Edit View Navigate Code Refactor Build Run Tools Git Window Help Java2021allfiles - Pr16.java [Java2021allfiles]

Java2021allfiles > src > JavaKonusalSorular > Pratik14_Arrays > Pr16 > main

Project Commit Pull Requests Bookmarks Structure

Project: JavaKonusalSorular

Files: Pr11.java, Pr12.java, Pr13.java, Pr14.java, Pr15.java, Pr16.java

Run: Pr16

Output:

```
C:\Users\HP\.jdks\openjdk-18.0.2\bin\java.exe "-javaagent:C:\Program Fi
[$1, $23, $134, $2, $7, $24, £32, £40, £2, £65, £4]
toplasm Dolar = 191
toplasm Euro = 143

Process finished with exit code 0
```

Code:

```
package JavaKonusalSorular.Pratik14_Arrays;
import java.util.Arrays;
public class Pr16 {
    public static void main(String[] args) {
        /* $ ve £ işaretleri olanların toplamlarını ayrı ayrı bulun
        String str = "$1 $23 $134 $2 $7 $24 £32 £40 £2 £65 £4 ";
        */
        String str = "$1 $23 $134 $2 $7 $24 £32 £40 £2 £65 £4 ";

        String [] arr = str.split( regex: " " );
        System.out.println(Arrays.toString(arr));
        //[$1 $23 $134 $2 $7 $24 £32 £40 £2 £65 £4 ]

        int topDolar =0;
        int topEuro= 0;

        for (int i = 0; i < arr.length; i++) {
            if(arr[i].contains("$")) {
                topDollar+=Integer.parseInt(arr[i].replace( target: "$", replacement: ""));
            }else
                topEuro+=Integer.parseInt(arr[i].replace( target: "£", replacement: ""));
        }

        System.out.println("toplasm Dolar = " + topDollar); //toplasm Dolar = 191
        System.out.println("toplasm Euro = " + topEuro); //toplasm Euro = 143
    }
}
```

Git:

Notifications

Run

Git: LF UTF-8 Tab* master

File Edit View Navigate Code Refactor Build Run Tools Git Window Help Java2021allfiles - Pr17.java [Java2021allfiles]

Java2021allfiles > src > JavaKonusalSorular > Pratik14_Arrays > Pr17

Project Commit Pull Requests Bookmarks Structure

Pr12.java Pr13.java Pr14.java Pr15.java Pr16.java Pr17.java

Run: Pr16

Notifications Run

```
package JavaKonusalSorular.Pratik14_Arrays;
import java.util.Arrays;
public class Pr17 {
    public static void main(String[] args) {
        /*
            given an int array and find the squares of the elements
            (Verilen bir int dizi için elemanlarının karelerini bulun)
            Example:{2,6,4,5,8,9}
            output:{4,36,16,25,64,81}
        */
        int arr []= {2,6,4,5,8,9};
        for (int i = 0; i < arr.length; i++) {
            arr [i] *=arr [i];
        }
        System.out.println(Arrays.toString(arr)); // [4, 36, 16, 25, 64, 81]
    }
}
```

C:\Users\HP\.jdks\openjdk-18.0.2\bin\java.exe "-javaagent:C:\Program Fi
[\$1, \$23, \$134, \$2, \$7, \$24, £32, £40, £2, £65, £4]
toplasm Dolar = 191
toplasm Euro = 143
Process finished with exit code 0

Git Debug TODO Problems Terminal Services Build

Build completed successfully in 20 sec, 692 ms (a minute ago) 26:1 LF windows-1254 Tab* master

File Edit View Navigate Code Refactor Build Run Tools Git Window Help Java2021allfiles - Pr18.java [Java2021allfiles]

Java2021allfiles > src > JavaKonusalSorular > Pratik14_Arrays > Pr18 > main

Project Commit Pull Requests Bookmarks Structure

Project: JavaKonusalSorular

Run: Pr18

C:\Users\HP\.jdks\openjdk-18.0.2\bin\java.exe "-javaagent:C:\Program Fi [CookBasarili]

Process finished with exit code 0

```
1 package JavaKonusalSorular.Pratik14_Arrays;
2
3 import java.util.Arrays;
4
5 public class Pr18 {
6
7     public static void main(String[] args) {
8         /* You have a string "GayetBasarili"
9          * with arrays change it to "CookBasarili" and write changing array
10         *(Stringiniz: "GayetBasarili" Diziyi "CookBasarili" ye cevirin )
11         */
12
13     String str = "GayetBasarili";
14     str = str.replace("Gayet", "Cook");
15     String [] arr= new String [1];
16     arr [0] = str;
17     System.out.println(Arrays.toString(arr)); //["CookBasarili"]
18
19 }
20
21 }
```

Git Debug TODO Problems Terminal Services Build

Build completed successfully in 17 sec, 965 ms (moments ago)

5:1 LF UTF-8 Tab* master

File Edit View Navigate Code Refactor Build Run Tools Git Window Help Java2021allfiles - Pr19.java [Java2021allfiles]

Java2021allfiles > src > JavaKonusalSorular > Pratik14_Arrays > Pr19 > main

Project Commit Pull Requests Bookmarks Structure

Project: Java2021allfiles > src > JavaKonusalSorular > Pratik14_Arrays > Pr19 > main

Run: Pr19

C:\Users\HP\.jdks\openjdk-18.0.2\bin\java.exe "-javaagent:C:\Program Fi

21
57
arr1 + arr2: 78

Process finished with exit code 0

```
1 package JavaKonusalSorular.Pratik14_Arrays;
2
3 public class Pr19 {
4
5     public static void main(String[] args) {
6         // arr1 = { {1,2}, {3,4,5}, {6} } ve arr2 = { {7,8,9}, {10,11}, {12} } veriliyor.
7         // Bu iki array'in tüm elemanlarının toplamını bulan programı yazınız.
8
9         int arr1[][] = { {1,2}, {3,4,5}, {6} };
10        int arr2[][] = { {7,8,9}, {10,11}, {12} };
11
12        int sum1=0;
13        for(int i=0; i<arr1.length; i++) {
14
15            for(int j=0; j<arr1[i].length; j++) {
16                sum1 = sum1 + arr1[i][j];
17            }
18        }
19        System.out.println(sum1); // 21
20
21        int sum2 = 0;
22        for(int i=0; i<arr2.length; i++) {
23
24            for(int k=0; k<arr2[i].length; k++) {
25                sum2 = sum2 + arr2[i][k];
26            }
27        }
28        System.out.println(sum2); // 57
29
30        System.out.println("arr1 + arr2: " + (sum1 + sum2)); // arr1 + arr2: 78
31
32    }
33
34 }
```

Git Debug TODO Problems Terminal Services Build

Build completed successfully in 22 sec, 257 ms (moments ago)

7:1 LF windows-1254 Tab* master

File Edit View Navigate Code Refactor Build Run Tools Git Window Help Java2021allfiles - Pr20.java [Java2021allfiles]

Java2021allfiles > src > JavaKonusalSorular > Pratik14_Arrays > Pr20

Project Commit Pull Requests Bookmarks Structure

File Edit View Navigate Code Refactor Build Run Tools Git Window Help Java2021allfiles - Pr20.java [Java2021allfiles]

Pr15.java Pr16.java Pr17.java Pr18.java Pr19.java Pr20.java

Run: Pr20

C:\Users\HP\.jdks\openjdk-18.0.2\bin\java.exe "-javaagent:C:\Program Fi
[6, 20, 13, 27]
Process finished with exit code 0

Notifications Run

```
1 package JavaKonusalSorular.Pratik14_Arrays;
2
3 import java.util.Arrays;
4
5 public class Pr20 {
6
7     public static void main(String[] args) {
8         //Aşağıdaki multi dimensional array'in iç array'lerindeki tüm elemanların
9         //toplamını birer birer bulan ve herbir sonucu yeni bir array'in elemanı yapan
10        // ve yeni array'i ekran'a yazdırın bir program yazınız
11        // Örnek: {{1,2,3}, {4,5}, {6,7}} ==> 1+2+3=6 4+5=9 6+7=13 ==> output: {6, 9, 13}
12
13        int arr[][] = {{1,2,3}, {4,5,11}, {6,7}, {8, 9, 10}};
14        int arrToplam[] = new int[arr.length];
15        int sum=0;
16
17        for(int i=0; i<arr.length; i++) {
18
19            for(int j=0; j<arr[i].length; j++) {
20                sum = sum + arr[i][j];
21            }
22            arrToplam[i] = sum;
23            sum=0;
24        }
25
26        System.out.println(Arrays.toString(arrToplam));
27    }
28}
```

Git Debug TODO Problems Terminal Services Build

Build completed successfully in 20 sec, 139 ms (2 minutes ago)

28:2 LF UTF-8 Tab* master

File Edit View Navigate Code Refactor Build Run Tools Git Window Help Java2021allfiles - Pr21.java [Java2021allfiles]

Java2021allfiles > src > JavaKonusalSorular > Pratik14_Arrays > Pr21 > main

Project Commit Pull Requests Bookmarks Structure

Project: JavaKonusalSorular

Pr21.java

```
package JavaKonusalSorular.Pratik14_Arrays;
import java.util.Scanner;

public class Pr21 {
    public static void main(String[] args) {
        // Kullanicidan oldigimiz 8 elemanli arrayin icinde
        // kac tane 3 e bolunebilen sayi vardir ?(negatif sayilar da dahil olsun)

        int [] arr = new int [8];
        Scanner scan = new Scanner (System.in);

        for (int i = 0; i < arr.length; i++) {
            System.out.print(i + ".indexi sayiyi giriniz :");
            arr [i]= scan.nextInt();
        }

        int count = 0;
        for (int i = 0; i < arr.length; i++) {
            if (arr[i] % 3 == 0) {

                count++;
            }
        }

        System.out.println("3 ile bolunebilen sayi :" + count);
        scan.close();
    }
}
```

Run: Pr21

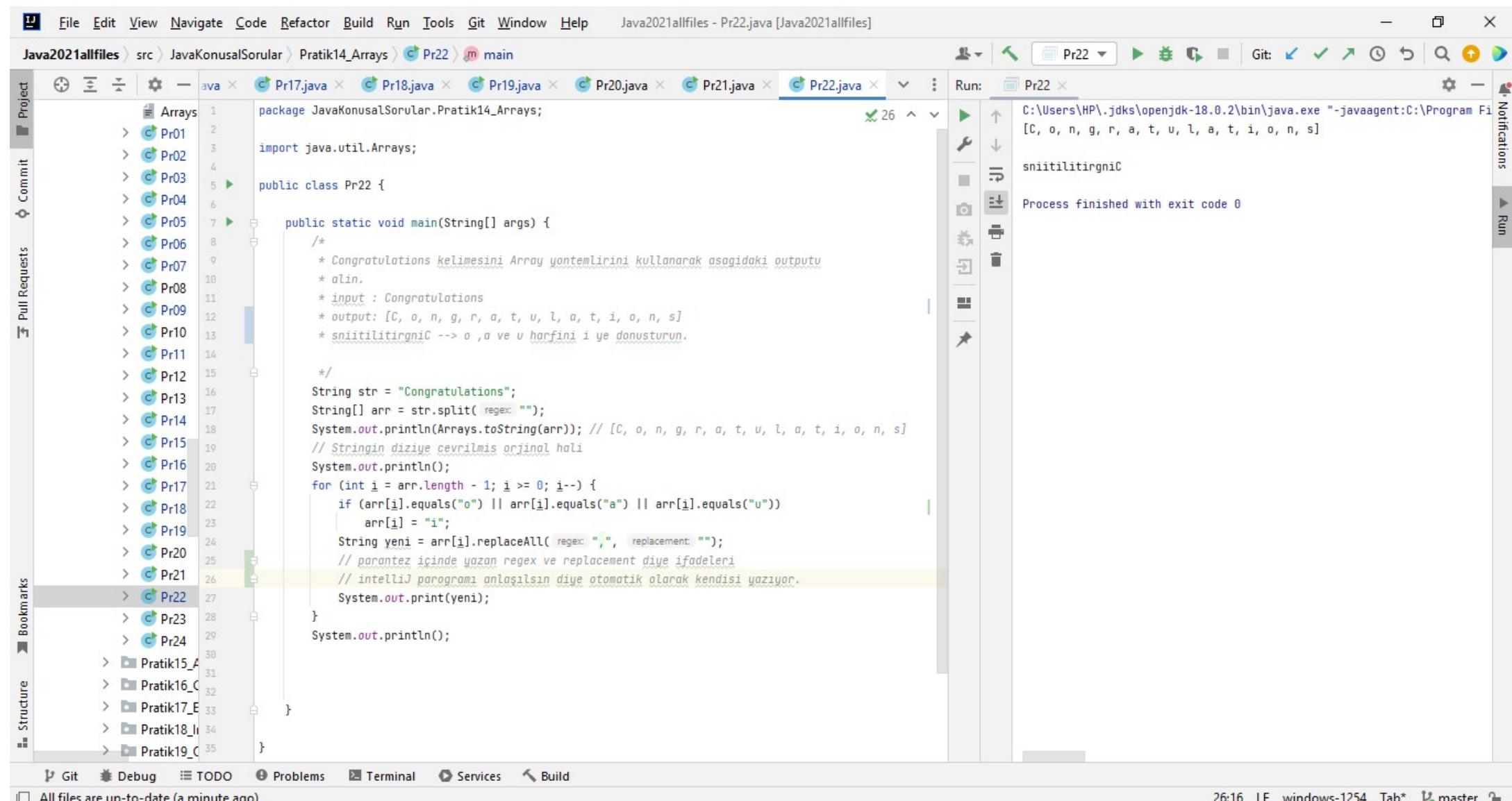
C:\Users\HP\.jdks\openjdk-18.0.2\bin\java.exe "-javaagent:C:\Program Fi
0.indexi sayiyi giriniz :9
1.indexi sayiyi giriniz :8
2.indexi sayiyi giriniz :7
3.indexi sayiyi giriniz :6
4.indexi sayiyi giriniz :5
5.indexi sayiyi giriniz :4
6.indexi sayiyi giriniz :3
7.indexi sayiyi giriniz :2
3 ile bolunebilen sayi :3

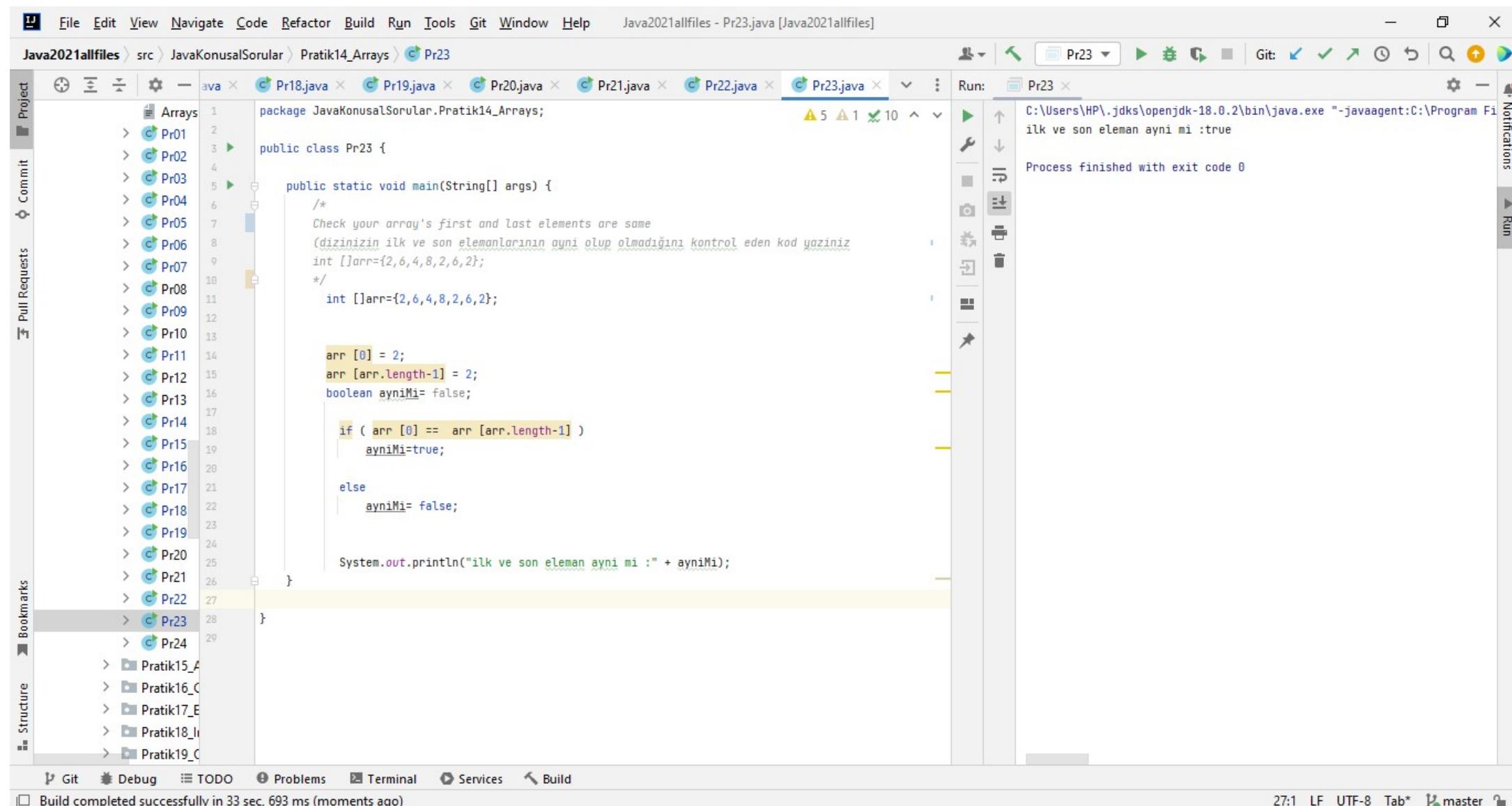
Process finished with exit code 0

Git Debug TODO Problems Terminal Services Build

All files are up-to-date (a minute ago)

13:1 LF windows-1254 Tab* master





File Edit View Navigate Code Refactor Build Run Tools Git Window Help Java2021allfiles - Pr24.java [Java2021allfiles]

Java2021allfiles > src > JavaKonusalSorular > Pratik14_Arrays > Pr24 > main

Project Commit Pull Requests Bookmarks Structure

Project: JavaKonusalSorular

Files:

- Pr19.java
- Pr20.java
- Pr21.java
- Pr22.java
- Pr23.java
- Pr24.java

Run: Pr24

Output:

```
C:\Users\HP\.jdks\openjdk-18.0.2\bin\java.exe "-javaagent:C:\Program Fi
[a, d, e, 1, r, 4, d, 3]
8
Process finished with exit code 0
```

Code:

```
package JavaKonusalSorular.Pratik14_Arrays;
import java.util.Arrays;

public class Pr24 {
    public static void main(String[] args) {
        /*
            Write a method which accepts string as parameter and prints the sum of digits
            present in the given string
            input : ade1r4d3"
            output : 8
            trick : Use --> Character.isDigit()
                     --> Integer.valueOf()
        */

        String str = "ade1r4d3";
        int sum = 0;

        String arr[] = str.split( regex "" );
        System.out.println(Arrays.toString(arr));

        for (String w : arr) {

            if (Character.isDigit(Integer.valueOf(w.charAt(0)))) {
                sum += Integer.valueOf(w);
            } else {
                continue;
            }
        }
        System.out.println(sum);
    }
}
```

Git:

Build completed successfully in 19 sec, 643 ms (moments ago)

30:33 LF windows-1254 4 spaces master

File Edit View Navigate Code Refactor Build Run Tools Git Window Help Java2021allfiles - C01.java [Java2021allfiles]

Java2021allfiles > src > JavaKonusalSorular > Pratik16_Constructors > Pr01 > C01 > f ilanNo

Project Commit Pull Requests Bookmarks Structure

Pr20.java X Pr21.java X Pr22.java X Pr23.java X Pr24.java X Pr01.java X Pr02.java X Pr03.java X C01.java X C02_Runner01.java X

Notifications Run

```
1 package JavaKonusalSorular.Pratik16_Constructors.Pr01;
2
3 public class C01 {
4
5     // Constructors konusu ile ilgili örnekler... 3 class ı beraber değerlendireceğiz.
6     public int ilanNo;
7     public String marka;
8     public String model="Yazilmadi";
9     public int yil=1900;
10    public int fiyat;
11
12    C01(int ilanNo, String marka, String model, int yil, int fiyat){
13        this.ilanNo=ilanNo;
14        this.marka=marka;
15        this.model=model;
16        this.yil=yil;
17        this.fiyat=fiyat;
18    }
19
20    C01(){
21    }
22
23    < C01(int ilanNo, String marka, int fiyat){
24        this.ilanNo=ilanNo;
25        this.marka=marka;
26        this.fiyat=fiyat;
27    }
28
29    // eger parametrelili bir constructor olusturursak Java default olanı oluşturur
30    // bu durumda projemizde oksama olmaması için default constructor yerine
31    // parametresiz bir constructor'i biz olusturmaliyiz
32
33    public void maxHiz(int hiz) { System.out.println("Araba " + hiz + " km hiz yapabilir"); }
34    public void yakit(String yakitTuru) { System.out.println("Araba yakit olarak " + yakitTuru + " kullanir"); }
35
36
37
38
39
```

Git Debug TODO Problems Terminal Services Build

Build completed successfully in 24 sec, 892 ms (a minute ago) 4:87 CRLF windows-1254 Tab* master

File Edit View Navigate Code Refactor Build Run Tools Git Window Help Java2021allfiles - C02_Runner01.java [Java2021allfiles]

Java2021allfiles > src > JavaKonusalSorular > Pratik16_Constructors > Pr01 > C02_Runner01 > main

Project Commit Pull Requests Bookmarks Structure

22.java X Pr23.java X Pr24.java X Pr01.java X Pr02.java X Pr03.java X C01.java X C02_Runner01.java X

Run: C02_Runner01 X

C:\Users\HP\.jdks\openjdk-18.0.2\bin\java.exe
Car1 : 10000, 1001, Toyota, Corolla, 2020
Araba 200 km hız yapabilir
Araba yakıt olarak dizel kullanır
Car2 : 0, 0, null, Yazılmadı, 1900
Son : 15000, 1002, Opel, Astra, 2010
Process finished with exit code 0

1 package JavaKonusalSorular.Pratik16_Constructors.Pr01;
2 public class C02_Runner01 {
3 public static void main(String[] args) {
4 C01 car1=new C01();
5 /* C01 car1 yazdigimizda C01 hem class ismi, hem de car1 objesinin non-primitive data turudur
6 new C01(); esitligin sagi deger olusturma
7 new : keyword dur ve yeni bir obje olusturacagimizi beyan eder. C01() ise constructor'dir */
8 car1.fiyat=10000;
9 car1.ilanNo=1001;
10 car1.marka="Toyota";
11 car1.model="Corolla";
12 car1.yil=2020;
13 // variable'lar sadece deger atamasi yapar
14 System.out.println("Car1 : "+car1.fiyat+", "+ car1.ilanNo + ", "+ car1.marka+", "+
15 car1.model+", "+ car1.yil); // 10000, 1001, Toyota, Corolla, 2020
16 car1.maxHiz(200); // diger C01 class ta metod üzerinden bunu yazdirdi. Araba 200 km hız yapabilir
17 car1.yakit(yakiTur: "dizel"); // // diger C01 class ta metod üzerinden bunu yazdirdi. Araba yakıt olarak dizel kullanır
18 // Not : method'ların ne yapacagini method belirler. O yüzden diger class a gitti.
19
20 // bir araba daha olusturmak istersem. car2 adında bir C01 classından nesne olusturuyorum.
21 C01 car2= new C01();
22
23 System.out.println("Car2 : "+car2.fiyat+", "+ car2.ilanNo + ", "+ car2.marka+", "+
24 car2.model+", "+ car2.yil); // Car2 : 0, 0, null, Yazılmadı, 1900
25 car2.fiyat=15000;
26 car2.ilanNo=1002;
27 car2.marka="Opel";
28 car2.model="Astra";
29 car2.yil=2010;
30 System.out.println("Son : "+car2.fiyat+", "+ car2.ilanNo + ", "+ car2.marka+", "+
31 car2.model+", "+ car2.yil); // Son : 15000, 1002, Opel, Astra, 2010
32
33 } }
34 }

Git Debug TODO Problems Terminal Services Build

Build completed successfully in 24 sec, 892 ms (moments ago)

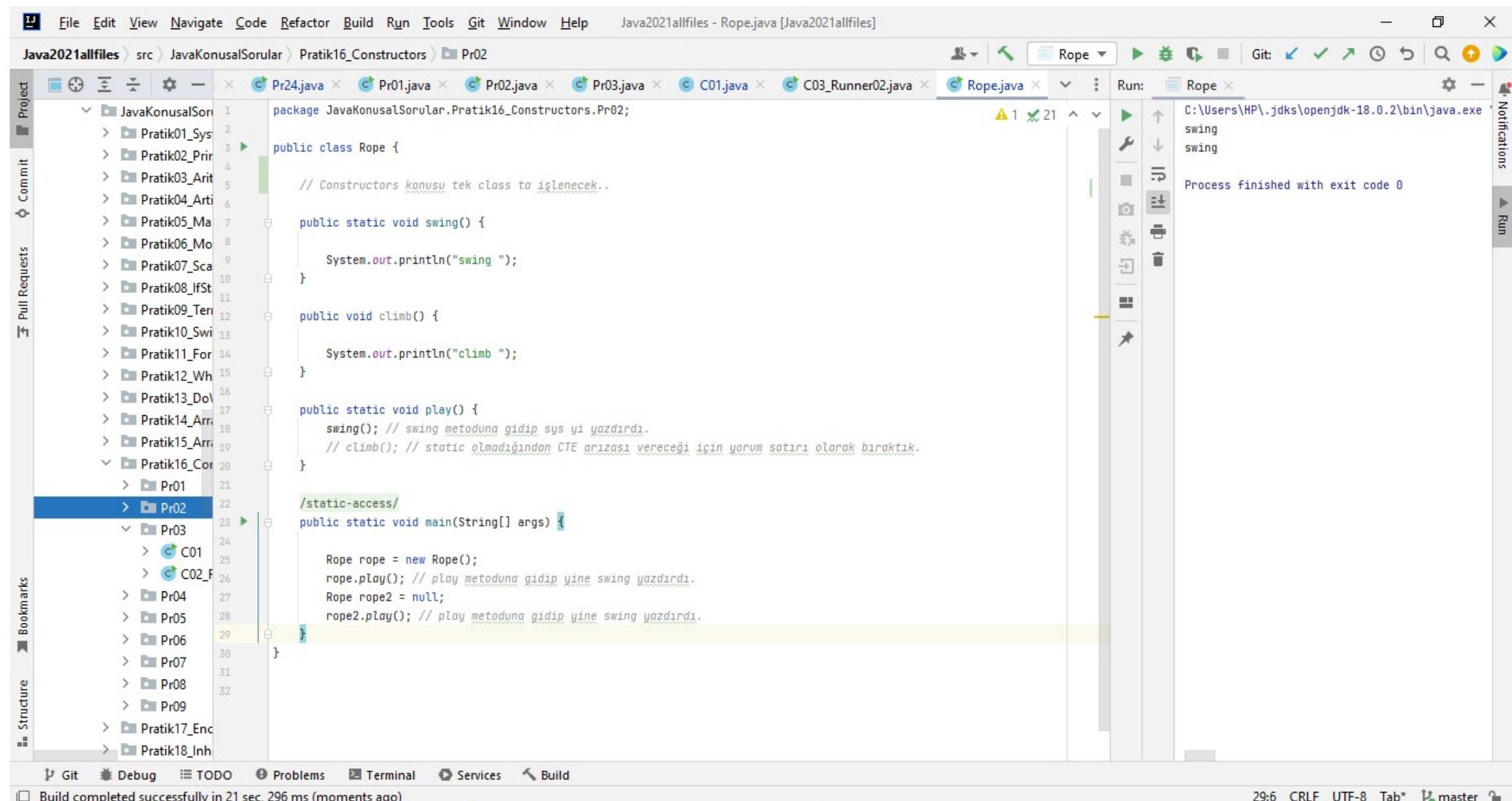
9:1 CRLF UTF-8 Tab* master

The screenshot shows the IntelliJ IDEA interface with the following details:

- File Menu:** File, Edit, View, Navigate, Code, Refactor, Build, Run, Tools, Git, Window, Help.
- Project Bar:** Java2021allfiles > src > JavaKonusalSorular > Pratik16_Constructors > Pr01 > C03_Runner02 > main
- Code Editor:** The main editor window displays the Java code for C03_Runner02.java. The code demonstrates constructor usage with static and non-static constructors, and it prints car details to the console.

```
package JavaKonusalSorular.Pratik16_Constructors.Pr01;
public class C03_Runner02 {
    public static void main(String[] args) {
        // ilk deger ataması yapmadan bos bir car olusturmak istiyorsak
        // default constructor yeterli olur
        C01 car1=new C01();
        // Ama bu durumda car1'e ait tum degerleri tek tek atamam gerekir
        car1.ilanNo=1003;
        car1.marka="Nissan";
        car1.model="Primera";
        car1.yil=2005;
        car1.fiyat=12000;
        System.out.println("Car1 :" + car1.fiyat + ", " + car1.ilanNo + ", " + car1.marka + ", " +
                           car1.model + ", " + car1.yil); // Car1 :12000, 1003, Nissan, Primera, 2005
        // Eger objeyi olustururken deger de atmak istiyorsak
        // parametreli constructor olustururmus gerekir
        C01 car2=new C01(ilanNo: 1004, marka: "Honda", model: "Civic", yil: 2010, fiyat: 20000);
        System.out.println("Car2 :" + car2.fiyat + ", " + car2.ilanNo + ", " + car2.marka + ", " +
                           car2.model + ", " + car2.yil); // Car2 :20000, 1004, Honda, Civic, 2010
        C01 car3=new C01(ilanNo: 1005, marka: "Mercedes", fiyat: 50000);
        System.out.println("Car3 :" + car3.fiyat + ", " + car3.ilanNo + ", " + car3.marka + ", " +
                           car3.model + ", " + car3.yil); // Car3 :50000, 1005, Mercedes, Yazilmadi,
```

- Run Tab:** Shows the output of the run command: C:\Users\HP\.jdks\openjdk-18.0.2\bin\java.exe. It lists three cars: Car1 :12000, 1003, Nissan, Primera, 2005; Car2 :20000, 1004, Honda, Civic, 2010; and Car3 :50000, 1005, Mercedes, Yazilmadi, 1900. The process finished with exit code 0.
- Toolbars and Side Panels:** Project, Commit, Pull Requests, Bookmarks, Structure, Git, Debug, TODO, Problems, Terminal, Services, Build, Notifications.



File Edit View Navigate Code Refactor Build Run Tools Git Window Help Java2021allfiles - Pr03\C01.java [Java2021allfiles]

Java2021allfiles > src > JavaKonusalSorular > Pratik16_Constructors > Pr03 > C01 > main

Project Commit Pull Requests Bookmarks Structure

Pr01.java X Pr02.java X Pr03.java X Pr01\C01.java X C03_Runner02.java X Rope.java X Pr03\C01.java X C01 C01 X Run: C01 X

C:\Users\HP\.jdks\openjdk-18.0.2\bin\java.exe
10
44
10
0

Process finished with exit code 0

```
package JavaKonusalSorular.Pratik16_Constructors.Pr03;  
  
public class C01 {  
  
    // Constructors konusu 2 class ta iselenecek.  
    int sayi=10;  
    String str="Yasasin eclipse";  
    static int sayi2;  
  
    public static void main(String[] args) {  
  
        // System.out.println(sayı); // sayı instance bir variable olduğu için direkt main method'dan kullanılamaz  
        // instance variable'lara obje üzerinden ulaşabilirim  
        // obje oluşturmak için constructor kullanmalıyım  
        // bu class'da constructor var mı ? VAR default constructor var.  
  
        C01 obj1=new C01();  
        // soldaki C01 : class ismi ve aynı zamanda data turudur  
        // sağdaki C01() : class ismi ile aynı ama yanında () olduğu için CONSTRUCTOR'dır  
        // obj1.sayı; CTE verir cunku ya atama yapmalıyız veya yazdırmalıyız  
  
        System.out.println(obj1.sayı); // 10  
  
        obj1.sayı=44;  
        // System.out.println(sayı); obje ürettiğimizde instance'a direkt ulaşamayız, mutlaka obje kullanmalıyız  
        System.out.println(obj1.sayı); // 44  
  
        C01 obj2=new C01();  
        System.out.println(obj2.sayı); // 10  
  
        obj2.sayı=34;  
        System.out.println(sayı2); // 0  
        // Java run time programdır.
```

Git Debug TODO Problems Terminal Services Build

All files are up-to-date (moments ago)

8:1 CRLF windows-1254 Tab* master

File Edit View Navigate Code Refactor Build Run Tools Git Window Help Java2021allfiles - C02_Runner.java [Java2021allfiles]

Java2021allfiles > src > JavaKonusalSorular > Pratik16_Constructors > Pr03 > C02_Runner > main

Project Commit Pull Requests Bookmarks Structure

Pr03.java X Pr01\C01.java X C03_Runner02.java X Rope.java X Pr03\C01.java X C02_Runner.java X C02_Runner X

Run: C02_Runner X

C:\Users\HP\.jdks\openjdk-18.0.2\bin\java.exe

Yasasin eclipse
Yasasin Faruk
Yasasin eclipse
0
27
34
34
34

Process finished with exit code 0

```
package JavaKonusalSorular.Pratik16_Constructors.Pr03;

public class C02_Runner {
    // bu main method'da static access ile ilgili
    // islevisi bozmayan kucuk bir hata var ve ben bunu onayliyorum
    // satir no 32 ve 38
    public static void main(String[] args) {

        // C01'deki variable'lara ulasmak istesem
        // ilk once C01 deki variable'larin instance mi yoksa static mi olduguna bakmam gereklidir
        // ornegin sayi ve str instance variable'lardir, dolayisiyla onlara obje uzerinden ulasabiliriz

        C01 obj1= new C01();
        System.out.println(obj1.str); // Yasasin eclipse

        obj1.str= "Yasasin Faruk";

        System.out.println(obj1.str); // Yasasin Faruk

        C01 obj2=new C01();
        System.out.println(obj2.str); // Yasasin eclipse

        // sayi2 variable'i static oldugu icin obje'ye IHTIYAC DUYULMAZ
        System.out.println(C01.sayi2); // 0

        C01 obj3=new C01();

        obj3.sayi2=27; // CTE vermez...
        // Ancak altini sari cizer ve satir numarasina unlem koyar
        // Cunku Java daha kisa ve emin bir yol yarken nicin obje uzerinden ulastin diye sikayet eder
        // Bu kodun calismasina engel degildir onun icin CTE vermez
        // Fakat gereksiz bir islem oldugundan Java bizi uyarır

        System.out.println(obj3.sayi2); // 27
    }
}
```

Git Debug TODO Problems Terminal Services Build

Build completed successfully in 27 sec, 544 ms (moments ago)

12:1 CRLF windows-1254 Tab* master

File Edit View Navigate Code Refactor Build Run Tools Git Window Help Java2021allfiles - C02_Runner.java [Java2021allfiles]

Java2021allfiles > src > JavaKonusalSorular > Pratik16_Constructors > Pr03 > C02_Runner

Project Commit Pull Requests Bookmarks Structure

Pr03.java X Pr01\CO1.java X C03_Runner02.java X Rope.java X Pr03\CO1.java X C02_Runner.java X

C02_Runner

Run: C02_Runner X

Notifications Run

System.out.println(obj3.sayi2); // 27
C01.sayi2=34; // static variable'lara class ismi variable ismi yazilarak ulasabilir buna static way denir
System.out.println(C01.sayi2); // 34 static variable'lar ulasabilen her obje
// ve her class icin ortaktir okul adi gibi
System.out.println(obj2.sayi2); // 34
System.out.println(obj1.sayi2); // 34

Process finished with exit code 0

Pr02 35
Pr03 36
Pr01\CO1 37
C02_F 38
Pr04 39
Pr05 40
Pr06 41
Pr07 42
Pr08 43
Pr09 44
Pratik17_Enc 45
Pratik18_Inh 46
Pratik19_Ove 47
Pratik20_Exc 48
Pratik21_Abs 49
Pratik22_Itte 50
Pratik23_Iter 51
Pratik24_Set 52
Pratik25_Qu 53
Pratik26_Ma 54
Pratik27_Str 55
Pratik28_Str 56
Pratik29_Dat 57
Pratik30_Rar 58
Pratik31_Rec 59
Pratik32_Pro 60
Pratik33_Itte 61
Pratik34_Rep 62
Pratik35_Enu 63
KonuOzetleri 64

Git Debug TODO Problems Terminal Services Build

Build completed successfully in 27 sec, 544 ms (moments ago)

68:1 CRLF windows-1254 Tab* master

File Edit View Navigate Code Refactor Build Run Tools Git Window Help Java2021allfiles - StaticMember.java [Java2021allfiles]

Java2021allfiles > src > JavaKonusalSorular > Pratik16_Constructors > Pr04 > StaticMember

Project Commit Pull Requests Bookmarks Structure

Pr01\CO1.java C03_Runner02.java Rope.java Pr03\CO1.java C02_Runner.java StaticMember.java

Run: StaticMember

C:\Users\HP\.jdks\openjdk-18.0.2\bin\java.exe -x16-y1

Process finished with exit code 0

```
package JavaKonusalSorular.Pratik16_Constructors.Pr04;

public class StaticMember {

    // Constructors konusu tek class ta islenecek.
    static int x ;
    int y;

    StaticMember(){
        x+=2; // x degeri 2 ike +2 artitip 4 yapiyoruz.
        y++; // y ye yukarıda deger atanmamisti ve burada +1 ekle diyor ve ye 1 oluyor.

    }
    static int getSquare() { return x * x ; }

    public static void main(String[] args) {

        StaticMember sm1=new StaticMember();
        StaticMember sm2=new StaticMember();

        int z =sm1.getSquare(); // z yi belirleme adina metoda yani 13.satira gidiyoruz. 4*4=16 bulduk.

        System.out.println("-x"+z+"-y"+sm2.y); // -x16-y1
    }
}
```

Git Debug TODO Problems Terminal Services Build

Build completed successfully in 32 sec, 196 ms (moments ago)

5:39 CRLF windows-1254 Tab* master

The screenshot shows an IDE interface with the following details:

- File Menu:** File, Edit, View, Navigate, Code, Refactor, Build, Run, Tools, Git, Window, Help.
- Title Bar:** Java2021allfiles - Student.java [Java2021allfiles]
- Toolbar:** Includes icons for Git operations (pull, push, merge), build, run, and search.
- Project Explorer:** Shows a tree view of the project structure under "Java2021allfiles/src". The "Pratik16_Constructors/Pr05" folder is expanded, showing files like C03_Runner02.java, Rope.java, Pr03/C01.java, C02_Runner.java, StaticMember.java, and Student.java.
- Code Editor:** The "Student.java" file is open. The code defines a class "Student" with fields "number", "name", and "college" (static). It contains a constructor that takes "int r, String n, String college" and initializes the fields. A main method creates two "Student" objects ("s1" and "s2") with values 111 and 222 respectively, and prints their "number", "name", and "college" using System.out.println.
- Run Tab:** Set to "Student". The output window shows the results of the run: "Process finished with exit code 0".
- Left Sidebar:** Includes tabs for Project, Commit, Pull Requests, Bookmarks, and Structure.
- Bottom Navigation:** Git, Debug, TODO, Problems, Terminal, Services, Build.
- Bottom Status:** Build completed successfully in 34 sec, 31 ms (moments ago).

File Edit View Navigate Code Refactor Build Run Tools Git Window Help Java2021allfiles - Squars.java [Java2021allfiles]

Java2021allfiles > src > JavaKonusalSorular > Pratik16_Constructors > Pr06 > Squars

Project Commit Pull Requests Bookmarks Structure

Rope.java × Pr03\CO1.java × C02_Runner.java × StaticMember.java × Student.java × Squars.java ×

Squars

Run: Squars ×

C:\Users\HP\.jdks\openjdk-18.0.2\bin\java.exe
81
9
Process finished with exit code 0

Notifications Run

```
package JavaKonusalSorular.Pratik16_Constructors.Pr06;
public class Squars {
    // Constructors konusu tek class ta işlenecek.
    public static long square(int x) {
        long y = x * (long) x;
        return y;
    }
    public static void main(String[] args) {
        int value = 9; // x e 9 atanmış oluyor.
        long result = square(value);
        System.out.println(result); // 81 yani y değeri 9*9=81 oluyor ve return ediyor.
        System.out.println(value); // 9
    }
}
```

Git Debug TODO Problems Terminal Services Build

Build completed successfully in 27 sec, 112 ms (moments ago)

25:1 CRLF windows-1254 Tab* master

The screenshot shows a Java code editor with the following code:

```
package JavaKonusalSorular.Pratik16_Constructors.Pr07;

public class BookClass {
    /* Write program as a Book class that will have 2 Constructors.
     * While creating an object make sure: Instance variables are being initialized Both
     * Constructors are being executed */

    String title, author;
    int publish;
    static int pages;

    public BookClass(String title, String author, int publish) {
        this.title = title;
        this.author = author;
        this.publish = publish;
    }

    public BookClass(String title, String author) {
        this.title = title;
        this.author = author;
    }

    public void display() {
        System.out.println("Book: " + title + " Author: " + author + " published in " + publish);
    }

    public static void main(String[] args) {
        BookClass book1=new BookClass( title: "Harry Potter and The Goblet of Fire", author: "JK Rowling", publish: 2000);
        BookClass book2= new BookClass( title: "Crime and Punishment", author: "Fyodor Dostoyevsky", publish: 1866);
        book1.display();
        book2.display();
    }
}
```

The code defines a `BookClass` with two constructors. The first constructor takes three parameters: `title`, `author`, and `publish`. The second constructor takes `title` and `author`. Both constructors initialize their respective instance variables. The `display` method prints the book's title, author, and publication year. In the `main` method, two books are created: `book1` with title "Harry Potter and The Goblet of Fire", author "JK Rowling", and publication year 2000; and `book2` with title "Crime and Punishment", author "Fyodor Dostoyevsky", and publication year 1866. Both books are then displayed.

File Edit View Navigate Code Refactor Build Run Tools Git Window Help Java2021allfiles - HWStudent.java [Java2021allfiles]

Java2021allfiles > src > JavaKonusalSorular > Pratik16_Constructors > Pr08 > HWStudent

Project Commit Pull Requests Bookmarks Structure

HWStudent.java

```
package JavaKonusalSorular.Pratik16_Constructors.Pr08;
public class HWStudent {
    /* Write program as a Student class that has instance variables name and address.
     * Create a constructor that will initialize those variables.
     * Print name & address of given student by the displayInfo method. */
    String name;
    String address;
    public HWStudent(String name, String address){
        this.name=name;
        this.address=address;
    }
    public void displayInfo() { System.out.println(name+" "+address); }
    public static void main(String[] args) {
        HWStudent student=new HWStudent( name: "Asim Demir", address: "1046 Cedar creek village rd TN");
        student.displayInfo();
    }
}
```

Run: HWStudent

C:\Users\HP\.jdks\openjdk-18.0.2\bin\java.exe "-javaagent:C:\Pratik16_Constructors\HWStudent.jar" Asim Demir 1046 Cedar creek village rd TN

Process finished with exit code 0

Git:

Notifications

Run

Git Debug TODO Problems Terminal Services Build

Build completed successfully in 28 sec, 411 ms (moments ago)

25:1 LF windows-1254 Tab* master

File Edit View Navigate Code Refactor Build Run Tools Git Window Help Java2021allfiles - MultilevelA.java [Java2021allfiles]

Java2021allfiles > src > JavaKonusalSorular > Pratik16_Constructors > Pr09 > MultilevelA > printF

Project Commit Pull Requests Bookmarks Structure

MultilevelA

Run: MultilevelA

C:\Users\HP\.jdks\openjdk-18.0.2\bin\java.exe "-javaagent:C:\Pratik16_Constructors\Pr09\multilevelA.jar" MultilevelA

black
brown
Turkish
they can run fast
parent they have a special recipe
they can run fast
Turkish
brown
kids can speak two languages

Process finished with exit code 0

```
package JavaKonusalSorular.Pratik16_Constructors.Pr09;
import ...
public class MultilevelA {
    // Constructors konusu 3 class ta iselenecak.
    public String eyeColor="black";
    String language="Turkish";
    String hairColor="brown";

    public void run() { System.out.println("they can run fast"); }
    /* Write program to inherit class A that has method printF which is static and
     * call or reuse that method into class B */
    public static void printF() {
        System.out.println("This is static method");
    }

    public static void main(String[] args) {

        HalukHocaGithub._11_Constructor.MultilevelB parent=new MultilevelB();
        System.out.println(parent.eyeColor); // black
        System.out.println(parent.hairColor); // brown
        System.out.println(parent.language); // Turkish

        parent.run(); // run() metoduna gider ve 10. satiri yazdirir. // they can run fast
        parent.canCook(); // MultilevelB classina gider ve canCook() metodunu calistirir.
        // parent they have a special recipe -- bunu yazdirir.

        HalukHocaGithub._11_Constructor.MultilevelA g=new HalukHocaGithub._11_Constructor.MultilevelA();
        g.run(); // 12. satirdaki metoda gider ve yazdirir.
        // they can run fast
        System.out.println(g.language); // Turkish
        //g.bilingual();
        HalukHocaGithub._11_Constructor.MultilevelC child=new MultilevelC();
        System.out.println(child.hairColor); // brown
        child.bilingual(); // MultilevelC deki classta gider ve metodu calistirir.
        // kids can speak two languages -- bunu yazdirir.
    } }
```

Git Debug TODO Problems Terminal Services Build

Build completed successfully in 29 sec, 286 ms (a minute ago)

13:1 LF windows-1254 Tab* master

File Edit View Navigate Code Refactor Build Run Tools Git Window Help Java2021allfiles - MultilevelB.java [Java2021allfiles]

Java2021allfiles > src > JavaKonusalSorular > Pratik16_Constructors > Pr09 > MultilevelB

Project Commit Pull Requests Bookmarks Structure

Squares.java BookClass.java HWStudent.java MultilevelA.java MultilevelB.java

MultilevelB

Run: MultilevelB

C:\Users\HP\jdks\openjdk-18.0.2\bin\java.exe "-javaagent:C:\Pr09\lib\jdwp-agent.jar=transport=bip,server=y,serverBindAddress=127.0.0.1,debugPort=5005,group=1" -Dfile.encoding=UTF-8 -jar C:\Users\HP\OneDrive\Documents\JavaKonusalSorular\Pratik16_Constructors\Pr09\multilevelb.jar

This is static method

Process finished with exit code 0

```
1 package JavaKonusalSorular.Pratik16_Constructors.Pr09;
2
3 public class MultilevelB extends MultilevelA {
4
5     public void canCook() { System.out.println("parent they have a special recipe"); }
6
7     //printf which is static and
8     // call or reuse that method into class B
9
10    public static void main(String[]args) {
11        printf(); // MultilevelA daki metoda gider ve calistirir.
12        // This is static method -- bunu yazdirir...
13    }
14
15 }
```

Git Debug TODO Problems Terminal Services Build

All files are up-to-date (moments ago)

17:1 LF windows-1254 Tab* master

File Edit View Navigate Code Refactor Build Run Tools Git Window Help Java2021allfiles - MultilevelC.java [Java2021allfiles]

Java2021allfiles > src > JavaKonusalSorular > Pratik16_Constructors > Pr09 > MultilevelC

MultilevelC

BookClass.java HWStudent.java MultilevelA.java MultilevelB.java MultilevelC.java

Run: MultilevelC

C:\Users\HP\jdks\openjdk-18.0.2\bin\java.exe "-javaagent:C:\Pr09\multilevel.jar" MultilevelC

This is static method

Process finished with exit code 0

Project Commit Pull Requests Bookmarks Structure

Pr02 Pr03 Pr04 Pr05 Pr06 Pr07 Pr08 Pr09 MultilevelC MultilevelB MultilevelA

```
1 package JavaKonusalSorular.Pratik16_Constructors.Pr09;
2
3 public class MultilevelC extends MultilevelB {
4
5     /* Write program for multilevel inheritance where class A inherited by B and
6      * class B inherit class by C. */
7
8     public void bilingual() {
9         System.out.println("kids can speak two languages");
10    }
11}
12
```

Notifications Run

Git Debug TODO Problems Terminal Services Build

All files are up-to-date (moments ago) 12:1 LF windows-1254 Tab* master

File Edit View Navigate Code Refactor Build Run Tools Git Window Help Java2021allfiles - E01.java [Java2021allfiles]

Java2021allfiles > src > JavaKonusalSorular > Pratik17_Encapsulation > Pr01 > E01

MultilevelC MultilevelA MultilevelB MultilevelC E01

Project Commit Pull Requests Bookmarks Structure Notifications Run

```
ticMember.java Student.java Squars.java BookClass.java HWStudent.java MultilevelA.java MultilevelB.java MultilevelC.java E01.java
```

1 package JavaKonusalSorular.Pratik17_Encapsulation.Pr01;

2

3

4

5 /*

6 1) Encapsulation kısaca "data hiding" demektir.

7

8 2) Başarılı bir Encapsulation aşağıdaki özelliklere sahip olmalıdır.

9 a) Nasıl kullanılacağı belli olmalıdır. (Direksiyon gibi)

10 b) Kodun karmaşıklığı kullanımının karmaşıklığına sebep olmamalıdır. Yani çok karmaşık kodlardan oluşan bir yapı basit bir şekilde kullanılabilmelidir.

11 c) Bir blokun bozulması diğer blokları bozulmasına sebep olmamalıdır.

12

13

14 3) Encapsulation nasıl yapılır?

15 a) Access modifier'ları private olarak kullanınız.

16 b) getter ve setter methodları ile "encapsulated" datalara ulaşın onları okuyabilir(getter) ve değiştirebiliriz(setter) .

17

18

19 4) Encapsulation'in faydalari

20 a) Esneklik(Flexibility). Normalde aşağıdaki örnekte age variable'sının değeri 25'dir ama diğer class'larda setAge() methodunu kullanarak age variable'sının

21 değerini istediğimiz gibi değiştirebilir kullanabiliriz.

22

23 b) Reusability. getter ve setter method'ları bir kere oluştururuz sonra proje içindeki

24 tüm classlar'dan istediğimiz kadar kullanabiliriz.

25 c) İstediğiniz data'yı okunabilir(getter() oluştur), istediğiniz data'yı okunamaz(getter() oluşturma)

26 hale getirebilirsiniz

27 d) İstediğiniz data'yı değiştirebilir (setter() oluştur), istediğiniz data'yı değiştirelemez

28 (setter() oluşturma) yapabilirsınız.

29

30 Not : Tüm variable'lar private ve sadece getter() oluşturulabilir. Bu tarz bir class'da

31 data'lar sadece okunabilir, değiştirilemez. Bu tarz class'lara "immutable class" denir.

32

33 5) Kullanıcının kullandığı sistem arkasındaki karmaşık yapıyı kullanıcıya göstermez

34 Boylece kullanıcı yapmak istediğilerini daha rahat yapar.

35 */

Git Debug TODO Problems Terminal Services Build

Type: In word 'demektir'

6:59 LF windows-1254 Tab* master

File Edit View Navigate Code Refactor Build Run Tools Git Window Help Java2021allfiles - E01.java [Java2021allfiles]

Java2021allfiles > src > JavaKonusalSorular > Pratik17_Encapsulation > Pr01 > E01

Project Commit Pull Requests Bookmarks Structure

ticMember.java Student.java Squars.java BookClass.java HWStudent.java MultilevelA.java MultilevelB.java MultilevelC.java E01.java

Notifications Run

```
> Pr02 27      d) Istediginiz data'yi degistirebilir (setter() olustur), istediginiz data'yi degistirilemez  
> Pr03 28      (setter() olusturma) yapabilirsiniz.  
> Pr04 29      Not : Tum variable'lar private ve sadece getter() olusturulabilir. Bu tarz bir class'da  
> Pr05 30      data'lar sadece okunabilir, degistirilemez. Bu tarz class'lara "immutable class" denir.  
> Pr06 31  
> Pr07 32      5) Kullanicinin kullandigi sistem arkasındaki karmaşık yapıyı kullanıcıya göstermez  
> Pr08 33      Böylece kullanıcı yapmak istediğilerini daha rahat yapar.  
> Pr09 34      */  
Pratik17_Encap 36      private int age = 25;  
Pr01 37      private String name = "Ali";  
> E01 39      // getter() olusturma  
> E02 40      public int getAge() {  
> E03 41          return age;  
> Pr02 42      }  
> Pr03 43      public String getName() {  
> Pr04 44          return name;  
> Pr05 45      }  
> Pr06 46      //setter() olusturmak  
> Pr07 47      public void setAge(int age) {  
> Pr08 48          this.age = age;  
> Pr09 49      }  
> Pr10 50      public void setName(String name) {  
> Pr11 51          this.name = name;  
> Pr12 52      }  
> Pr13 53      }  
> Pr14 54      }  
> Pr15 55      }  
> Aa_Not 56      }
```

Git Debug TODO Problems Terminal Services Build

Typo: In word 'demektir'

6:59 LF windows-1254 Tab* master

File Edit View Navigate Code Refactor Build Run Tools Git Window Help Java2021allfiles - E02.java [Java2021allfiles]

Java2021allfiles > src > JavaKonusalSorular > Pratik17_Encapsulation > Pr01 > E02

Project Commit Pull Requests Bookmarks Structure

HWStudent.java MultilevelA.java MultilevelB.java MultilevelC.java E01.java E02.java Run: E02

C:\Users\HP\.jdks\openjdk-18.0.2\bin\java.exe
25
Ali
33
Ayse
38
Emine
Process finished with exit code 0

Notifications Run

```
1 package JavaKonusalSorular.Pratik17_Encapsulation.Pr01;
2
3 public class E02 {
4
5     public static void main(String[] args) {
6
7         E01 obj1 = new E01();
8         System.out.println(obj1.getAge()); //25
9
10        System.out.println(obj1.getName()); // Ali
11
12        obj1.setAge(33);
13        System.out.println(obj1.getAge()); // 33
14
15        obj1.setName("Ayse");
16        System.out.println(obj1.getName()); // Ayse
17
18        //num'i 38 yap ve ekran'a yazdir
19        E03 obj3 = new E03();
20        obj3.setNum(38);
21        System.out.println(obj3.getNum());
22
23        //name'i ekran'a yazdirin
24        System.out.println(obj3.getName());
25
26    }
27
28
29 }
30 }
```

Git Debug TODO Problems Terminal Services Build

All files are up-to-date (moments ago)

10:1 LF windows-1254 Tab* master

File Edit View Navigate Code Refactor Build Run Tools Git Window Help Java2021allfiles - E03.java [Java2021allfiles]

Java2021allfiles > src > JavaKonusalSorular > Pratik17_Encapsulation > Pr01 > E03 > setNum

Project Commit Pull Requests Bookmarks Structure

Notifications Run

```
1 package JavaKonusalSorular.Pratik17_Encapsulation.Pr01;
2
3 public class E03 {
4
5     private int num = 12;
6     private String name = "Emine";
7     private char initial = 'J';
8     private boolean old = true;
9
10    public int getNum() {
11        return num;
12    }
13    public void setNum(int num) {
14        this.num = num;
15    }
16    public String getName() {
17        return name;
18    }
19    public void setName(String name) {
20        this.name = name;
21    }
22    public char getInitial() {
23        return initial;
24    }
25    public void setInitial(char initial) {
26        this.initial = initial;
27    }
28    public boolean isOld() {
29        return old;
30    }
31    // Data type boolean oldugu zaman getter() methodun ismi "get" ile degil "is" ile baslar.
32    public void setOld(boolean old) {
33        this.old = old;
34    }
35}
```

Git Debug TODO Problems Terminal Services Build

All files are up-to-date (a minute ago) 15:10 LF windows-1254 Tab* master

The screenshot shows an IDE interface with the following details:

- File Menu:** File, Edit, View, Navigate, Code, Refactor, Build, Run, Tools, Git, Window, Help.
- Title Bar:** Java2021allfiles - C01_AccessModifier01.java [Java2021allfiles]
- Toolbar:** Includes icons for user, E02, Git, and various navigation symbols.
- Project Explorer:** Shows a tree view of the project structure:
 - JavaKonusalSorular
 - Pratik17_Encapsulation
 - Pr02
 - Pr03
 - Pr04
 - Pr05
 - Pr06
 - Pr07
 - Pr08
 - Pr09
 - Pratik17_Encap
 - Pr01
 - Pr02
 - C01_Acc
 - C02_Acc
 - C03_Acc
 - Pr03
 - Pr04
 - Pr05
 - Pr06
 - Pr07
 - Pr08
 - Pr09
 - Pr10
 - Pr11
 - Pr12
 - Pr13
 - Pr14
 - Pr15
 - Aa_Not
 - Pratik18_Inherit
 - Pratik19_Overri
- Code Editor:** Displays the Java code for `C01_AccessModifier01`. The code defines a class with various access modifiers (public, private, protected) and includes explanatory comments in Turkish.
- Status Bar:** Shows "All files are up-to-date (2 minutes ago)" and "29:96 CRLF UTF-8 Tab* master".
- Sidebar:** Includes tabs for Project, Commit, Pull Requests, Bookmarks, and Structure.
- Notifications:** A sidebar on the right showing 137 notifications.

The screenshot shows an IDE interface with the following details:

- File Menu:** File, Edit, View, Navigate, Code, Refactor, Build, Run, Tools, Git, Window, Help.
- Title Bar:** Java2021allfiles - C02_AccessModifier02.java [Java2021allfiles]
- Project Explorer:** Shows a tree view of the project structure under the "Project" tab. The "Pratik17_Encap" folder contains subfolders "Pr02", "Pr03", "Pr04", "Pr05", "Pr06", "Pr07", "Pr08", "Pr09", and files "C01_AccessModifier01.java", "C02_AccessModifier02.java", and "C03_AccessModifier03.java". Other folders like "Pr01" through "Pr15" and "Pratik18_Inherit", "Pratik19_Overri" are also listed.
- Code Editor:** The main editor window displays the content of "C02_AccessModifier02.java". The code demonstrates static and instance variable access from different classes.
- Run Tab:** Shows the command used for execution: C:\Users\HP\.jdks\openjdk-18.0.2\bin\java.exe. The output window shows the printed values: defaultAge : 15, protectedAge : 32, publicAge : 61, followed by the message "Process finished with exit code 0".
- Bottom Navigation:** Git, Debug, TODO, Problems, Terminal, Services, Build.
- Status Bar:** All files are up-to-date (moments ago), 23:1 CRLF UTF-8 Tab*, master.

File Edit View Navigate Code Refactor Build Run Tools Git Window Help Java2021allfiles - C03_AccessModifier03.java [Java2021allfiles]

Java2021allfiles > src > JavaKonusalSorular > Pratik17_Encapsulation > Pr02 > C03_AccessModifier03

Project Commit Pull Requests Bookmarks Structure

MultilevelB.java X MultilevelC.java X E01.java X E02.java X E03.java X C01_AccessModifier01.java X C02_AccessModifier02.java X C03_AccessModifier03.java X

C03_AccessModifier03.java

```
1 package JavaKonusalSorular.Pratik17_Encapsulation.Pr02;
2
3 public class C03_AccessModifier03 {
4
5     String defaultName="Mehmet";
6
7     private String privateName="Hakan";
8     protected String protectedName="Turhan";
9     public String publicName="Danyal";
10
11 }
12
13
14
15
```

Notifications Run

Git Debug TODO Problems Terminal Services Build

All files are up-to-date (moments ago) 15:1 CRLF windows-1254 Tab* master

File Edit View Navigate Code Refactor Build Run Tools Git Window Help Java2021allfiles - C01_Encapsulation01.java [Java2021allfiles]

Java2021allfiles > src > JavaKonusalSorular > Pratik17_Encapsulation > Pr03 > C01_Encapsulation01

Project Commit Pull Requests Bookmarks Structure

Notifications Run

```
1 package JavaKonusalSorular.Pratik17_Encapsulation.Pr03;
2
3 public class C01_Encapsulation01 {
4
5     // C01 ve C02 classlarini beraber yapsak
6
7     String name;
8     String surName;
9     private int age;
10    // yanlis girmeleri koruma adina private kullaniyoruz.
11
12    public static void main(String[] args) {
13
14    }
15
16    public void yasAta(int age) { // obj isterse yasi set eder
17        if (age<0) {
18            this.age=-age;
19
20        }else this.age=age;
21    }
22
23    public int yasGoster() { //bu metod obj isterse yasini gosterir
24
25        return this.age;
26    }
27
28
29
30
31 }
```

Git Debug TODO Problems Terminal Services Build

All files are up-to-date (moments ago)

31:1 CRLF UTF-8 Tab* master

File Edit View Navigate Code Refactor Build Run Tools Git Window Help Java2021allfiles - C02_Encapsulation02.java [Java2021allfiles]

Java2021allfiles > src > JavaKonusalSorular > Pratik17_Encapsulation > Pr03 > C02_Encapsulation02

Project Commit Pull Requests Bookmarks Structure

Proj... + ☰ C01_Encapsulation01.java × C02_Encapsulation02.java ×

Run: C02_Encapsulation02 ×

C:\Users\HP\.jdks\openjdk-18.0.2\bin\java.exe
Onur
Enes
47

Process finished with exit code 0

1 package JavaKonusalSorular.Pratik17_Encapsulation.Pr03;
2
3 public class C02_Encapsulation02 {
4
5 public static void main(String[] args) {
6
7 // C01 ve C02 yi beraber yoptik
8
9 C01_Encapsulation01 insan1= new C01_Encapsulation01();
10 //C01 den insan1 obj creat ettim
11
12 //insan1.age=-47;
13 insan1.name="Onur";
14 insan1.surName="Enes";
15 insan1.yasAta(age: -47);
16 System.out.println(insan1.name); // Onur
17 System.out.println(insan1.surName); // Enes
18 System.out.println(insan1.yasGoster()); // 47
19
20 // Not ; yazdirirken yasAta diyerek yazdirdigimizda CTE verdi.
21 // Sadece atama yapar yazdirmak icin yasGoster kullanilmali.
22
23
24
25
26 }
27}

Git Debug TODO Problems Terminal Services Build

All files are up-to-date (moments ago)

27:6 CRLF windows-1254 Tab* master

File Edit View Navigate Code Refactor Build Run Tools Git Window Help Java2021allfiles - C05_Encapsulation05.java [Java2021allfiles]

Java2021allfiles > src > JavaKonusalSorular > Pratik17_Encapsulation > Pr03 > C05_Encapsulation05 > C05_Encapsulation05.java

Project Commit Pull Requests Bookmarks Structure

Notifications Run

```
1 package JavaKonusalSorular.Pratik17_Encapsulation.Pr03;
2
3 public class C05_Encapsulation05 {
4
5     // C05 ve C06 classlarini beraber yaptik
6
7     String name;
8     String surName;
9     private int age; // encapsulation icin veriyi private yaptik
10
11    public static void main(String[] args) {
12
13    }
14
15    public int getAge() {
16        return age;
17    }
18
19    public void setAge(int age) {
20        if (age > 0) {
21            this.age = age;
22        } else
23            this.age = -age;
24    }
25
26
27 }
28
```

Git Debug TODO Problems Terminal Services Build

All files are up-to-date (moments ago) 9:37 CRLF UTF-8 Tab* master

File Edit View Navigate Code Refactor Build Run Tools Git Window Help Java2021allfiles - C06_Encapsulation06.java [Java2021allfiles]

Java2021allfiles > src > JavaKonusalSorular > Pratik17_Encapsulation > Pr03 > C06_Encapsulation06

Project Commit Pull Requests Bookmarks Structure

java x C03_ArabaMain.java x C04_Araba.java x C05_Encapsulation05.java x C06_Encapsulation06.java x Run: C06_Encapsulation06 x Notifications

C06_Encapsulation06.java

```
1 package JavaKonusalSorular.Pratik17_Encapsulation.Pr03;
2
3 public class C06_Encapsulation06 {
4
5     public static void main(String[] args) {
6
7         // C05 ve C06 yi beraber yoptik
8
9         C05_Encapsulation05 insan2= new C05_Encapsulation05();
10        //C05 den insan1 obj creat ettim
11
12        //insan1.age=-34;
13        insan2.name="Yavuz";
14        insan2.surName="Selim";
15        insan2.setAge(-34);
16        System.out.println(insan2.name); // Yavuz
17        System.out.println(insan2.surName); // Selim
18        System.out.println(insan2.getAge()); // 34
19
20        // Not ; yazdirirken yasAta diyerek yazdirdigimizda CTE verdi.
21        // Sadece atama yapar yazdirmak icin yasGoster kullanilmali.
22
23    }
24
25
26 }
27
28
29 }
```

Run: C:\Users\HP\.jdks\openjdk-18.0.2\bin\java.exe
Yavuz
Selim
34
Process finished with exit code 0

Git Debug TODO Problems Terminal Services Build

Build completed successfully in 42 sec, 951 ms (moments ago)

27:1 CRLF windows-1254 Tab* master

File Edit View Navigate Code Refactor Build Run Tools Git Window Help Java2021allfiles - C05_BMI.java [Java2021allfiles]

Java2021allfiles > src > JavaKonusalSorular > Pratik17_Encapsulation > Pr04 > C05_BMI

Project Commit Pull Requests Bookmarks Structure

Proj... + E - | C01.java × C02_Encapsulation02.java × C03_ArabaMain.java × C04_Araba.java × C05_Encapsulation05.java × C06_Encapsulation06.java × C05_BMI.java ×

Notifications Run

```
1 package JavaKonusalSorular.Pratik17_Encapsulation.Pr04;
2
3 public class C05_BMI {
4
5     /*
6         * 1 ) BMI ve BMIRunner class'larıcreat ediniz
7         * 2 ) BMI class'i icin field'ları
8         * name(String), age(int), weight(double) ve height(double) olan variable'lar
9         * olusturup tüm variableleri encapsule ediniz.
10        * 3 ) tüm field'ları setter getter ve constructor creat ediniz.
11        * 4 ) bmi=weight/(height*height) formulune gire
12        * bmi hesaplayan bir method creat ediniz.
13        * 5 ) bmi 18.5 ten kucukse zayıf,
14        * 25 ten kucukse normal, 30 dan kucukse kilolu, 30 üstü obez durumunu veren method
15        * creat ediniz.
16        * 6 ) BMIRunner de bu degereli yazdiriniz.
17    */
18
19    // Soruyu adım adım yapalım.
20    // 1. adımda variable larımı olusturup private yapıyorum...
21
22    private String name;
23    private int age;
24    private double weight;
25    private double height;
26
27    // 2. adımda ise parametresiz constructor olusturuyorum...
28
29    public C05_BMI() {
30
31    }
32
33    // 3. adımda ise parametreli constructor olusturuyorum...
34
35    public C05_BMI(String name, int age, double weight, double height) {
```

Git Debug TODO Problems Terminal Services Build

Build completed successfully in 42 sec, 951 ms (3 minutes ago)

32:1 CRLF UTF-8 Tab* master

File Edit View Navigate Code Refactor Build Run Tools Git Window Help Java2021allfiles - C05_BMI.java [Java2021allfiles]

Java2021allfiles > src > JavaKonusalSorular > Pratik17_Encapsulation > Pr04 > C05_BMI

Project Commit Pull Requests Bookmarks Structure

Proj... + E - | ation01.java × C02_Encapsulation02.java × C03_ArabaMain.java × C04_Araba.java × C05_Encapsulation05.java × C06_Encapsulation06.java × C05_BMI.java × ... Notifications Run

```
// 3. adimda ise parametreli constructor olusturuyorum...
public C05_BMI(String name, int age, double weight, double height) {
    super();
    this.name = name;
    this.age = age;
    this.weight = weight;
    this.height = height;
}

// 4. adimda ise getter ve setters olusturuyorum
public String getName() {
    return name;
}

public void setName(String name) {
    this.name = name;
}

public int getAge() {
    return age;
}

public void setAge(int age) {
    this.age = age;
}

public double getWeight() {
    return weight;
}
```

Git Debug TODO Problems Terminal Services Build

Build completed successfully in 42 sec, 951 ms (3 minutes ago) 32:1 CRLF UTF-8 Tab* master

File Edit View Navigate Code Refactor Build Run Tools Git Window Help Java2021allfiles - C05_BMI.java [Java2021allfiles]

Java2021allfiles > src > JavaKonusalSorular > Pratik17_Encapsulation > Pr04 > C05_BMI

Project Commit Pull Requests Bookmarks Structure

Proj... + E - | C05_BMI.java × C02_Encapsulation02.java × C03_ArabaMain.java × C04_Araba.java × C05_Encapsulation05.java × C06_Encapsulation06.java × C05_BMI.java ×

Notifications Run

```
    return weight;
}
public void setWeight(double weight) {
    this.weight = weight;
}
public double getHeight() { return height; }
public void setHeight(double height) {
    height = height;
}
public double bmiHesapla() {
    double bmi = weight / (height * height);
    return bmi;
}
public String bmiDurumu() {
    double bmi = bmiHesapla();

    if (bmi < 18.5) {
        return "zayıf";
    } else if (bmi < 25) {
        return "normal";
    } else if (bmi < 30) {
        return "kilolu";
    } else
        return "obez";
}
```

Git Debug TODO Problems Terminal Services Build

Build completed successfully in 42 sec, 951 ms (3 minutes ago)

32:1 CRLF UTF-8 Tab* master

The screenshot shows an IDE interface with the following details:

- File Menu:** File, Edit, View, Navigate, Code, Refactor, Build, Run, Tools, Git, Window, Help.
- Title Bar:** Java2021allfiles - C05_BMIRunner.java [Java2021allfiles]
- Project Explorer:** Shows a tree view of Java files under "Pratik17_Encapsulation/Pr04". The file "C05_BMIRunner.java" is selected.
- Code Editor:** Displays the following Java code:

```
package JavaKonusalSorular.Pratik17_Encapsulation.Pr04;
public class C05_BMIRunner {
    public static void main(String[] args) {
        C05_BMI b1=new C05_BMI( name: "Aydin", age: 43, weight: 102, height: 1.83);
        System.out.println(b1.getName()+" bey "+b1.bmiHesapla()+" "+b1.bmiDurumu());
    }
}
```
- Run Tab:** Shows the command used to run the program: C:\Users\HP\.jdks\openjdk-18.0.2\bin\java.exe Aydin bey 30.457762250291136 obez
- Output Tab:** Shows the result: Process finished with exit code 0
- Bottom Navigation:** Git, Debug, TODO, Problems, Terminal, Services, Build.
- Status Bar:** All files are up-to-date (moments ago), 5:1 CRLF windows-1254 Tab*, master

The screenshot shows a Java IDE interface with the following details:

- File Bar:** File Edit View Navigate Code Refactor Build Run Tools Git Window Help
- Title Bar:** Java2021allfiles - C06_Students.java [Java2021allfiles]
- Toolbar:** Includes icons for Project, Commit, Pull Requests, Bookmarks, Structure, Git, Debug, TODO, Problems, Terminal, Services, and Build.
- Project Explorer:** Shows the project structure under "Java2021allfiles > src". The "Pratik17_Encapsulation" folder contains "Pr04" which has "C06_Students". Other files like "C05_BMI", "C05_BMIRunner", etc., are also listed.
- Editor:** The code for "C06_Students.java" is displayed:

```
1 package JavaKonusalSorular.Pratik17_Encapsulation.Pr04;
2
3 public class C06_Students {
4
5     /*
6      * Burada 2 adet class vardir. bir main digeri student..
7      *
8      * Student Class i icinde
9      * name ve age adinda iki variable olusturunuz.
10     * geter ve stter yapiniz.
11     *
12     */
13
14     // 1. adimda variable lari private yapiyoruz..
15
16     private String name;
17     private int age;
18
19     // 2. adimda getter ve setter lari olusturuyoruz.
20     public String getName() {
21         return name;
22     }
23
24     public void setName(String name) {
25         this.name = name;
26     }
27
28     public int getAge() {
29         return age;
30     }
31
32     public void setAge(int age) {
33         this.age = age;
34     }
35 }
```
- Bottom Status Bar:** All files are up-to-date (moments ago), 22:6, CRLF, UTF-8, Tab*, master

File Edit View Navigate Code Refactor Build Run Tools Git Window Help Java2021allfiles - C06_StudentsRunner.java [Java2021allfiles]

Java2021allfiles > src > JavaKonusalSorular > Pratik17_Encapsulation > Pr04 > C06_StudentsRunner

Project Commit Pull Requests Bookmarks Structure

Proj... + E - | C06_StudentsRunner.java X C05_BMI.java X C05_BMIRunner.java X C06_Students.java X C06_StudentsRunner.java X Run: C06_StudentsRunner X

Pratik13_DoWhileLoop
Pratik14_Arrays
Pratik15_ArrayList
Pratik16_Constructors
Pratik17_Encapsulation
Pr01
Pr02
Pr03
Pr04
C05_BMI
C05_BMIRunner
C06_Students
C06_StudentsRunner
C07_Odev
C07_OdevRunner
C08_Encapsulati
C08_Encapsulati
C09_Book
C09_BookRunner
C10_Employees
C10_Employees
Pr05
Pr06
Pr07
Pr08
Pr09
Pr10
Pr11
Pr12
Pr13

```
1 package JavaKonusalSorular.Pratik17_Encapsulation.Pr04;
2
3 import java.util.Scanner;
4
5 public class C06_StudentsRunner {
6
7     public static void main(String[] args) {
8
9
10        // 3. adimda ise scanner objesi ie tanimlama yaptim
11        Scanner scan = new Scanner(System.in);
12
13        System.out.println("Lutfen adinizi giriniz : ");
14        String name = scan.nextLine();
15        System.out.println("Lutfen yasiniz giriniz : ");
16        int age = scan.nextInt();
17
18
19        // 4. adimda ise student1 objesi olusturdum..
20
21        C06_Students student1 = new C06_Students();
22        student1.setName(name);
23        student1.setAge(age);
24
25        System.out.println("Ögrencinin adi : " + student1.getName() + "\nYasi : " + student1.getAge());
26
27        scan.close();
28
29    }
30
31
32 }
```

C:\Users\HP\.jdks\openjdk-18.0.2\bin\java.exe
Lutfen adinizi giriniz :
Mehmet
Lutfen yasiniz giriniz :
35
Ögrencinin adi : Mehmet
Yasi : 35
Process finished with exit code 0

Git Debug TODO Problems Terminal Services Build

All files are up-to-date (moments ago)

10:1 CRLF UTF-8 Tab* master

File Edit View Navigate Code Refactor Build Run Tools Git Window Help Java2021allfiles - C08_Encapsulation08.java [Java2021allfiles]

Java2021allfiles > src > JavaKonusalSorular > Pratik17_Encapsulation > Pr04 > C08_Encapsulation08

Project Commit Pull Requests Bookmarks Structure

Proj... + E - | C06_StudentsRunner | C06_StudentsRunner | Git: ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓

Pratik13_DoWhileLoop
Pratik14_Arrays
Pratik15_ArrayList
Pratik16_Constructors
Pratik17_Encapsulation
Pr01
Pr02
Pr03
Pr04
C05_BMI
C05_BMIRunner
C06_Students
C06_StudentsRu
C07_Odev
C07_OdevRunne
C08_Encapsulati
C08_Encapsulati
C09_Book
C09_BookRunne
C10_Employees
C10_Employees
Pr05
Pr06
Pr07
Pr08
Pr09
Pr10
Pr11
Pr12
Pr13

```
1 package JavaKonusalSorular.Pratik17_Encapsulation.Pr04;
2
3 public class C08_Encapsulation08 {
4
5     private String okulIsmi="Yildiz Koleji";
6     private int okulNo=12345;
7     private boolean okulAcikMi=true;
8
9     public String getOkulIsmi() {
10         return okulIsmi;
11     }
12     public void setOkulIsmi(String okulIsmi) {
13         this.okulIsmi = okulIsmi;
14     }
15     public int getOkulNo() {
16         return okulNo;
17     }
18     public void setOkulNo(int okulNo) {
19         this.okulNo = okulNo;
20     }
21     public boolean isOkulAcikMi() {
22         return okulAcikMi;
23     }
24     public void setOkulAcikMi(boolean okulAcikMi) {
25         this.okulAcikMi = okulAcikMi;
26     }
27
28 }
29
```

Notifications Run

Git Debug TODO Problems Terminal Services Build

All files are up-to-date (a minute ago)

28:2 CRLF windows-1254 Tab* master

File Edit View Navigate Code Refactor Build Run Tools Git Window Help Java2021allfiles - C08_Encapsulation08Runner.java [Java2021allfiles]

Java2021allfiles > src > JavaKonusalSorular > Pratik17_Encapsulation > Pr04 > C08_Encapsulation08Runner

Project Commit Pull Requests Bookmarks Structure

Proj... + E - ⚙️ — C06_StudentsRunner.java × C07_Odev.java × C08_Encapsulation08.java × C08_Encapsulation08Runner.java × Run: C08_Encapsulation08Runner × Notifications

Pratik13_DoWhileLoop
Pratik14_Arrays
Pratik15_ArrayList
Pratik16_Constructors
Pratik17_Encapsulation
Pr01
Pr02
Pr03
Pr04
C05_BMI
C05_BMIRunner
C06_Students
C06_StudentsRu
C07_Odev
C07_OdevRunne
C08_Encapsulati
C08_Encapsulati
C09_Book
C09_BookRunne
C10_Employees
C10_Employees
Pr05
Pr06
Pr07
Pr08
Pr09
Pr10
Pr11
Pr12
Pr13

```
1 package JavaKonusalSorular.Pratik17_Encapsulation.Pr04;
2
3 public class C08_Encapsulation08Runner {
4
5     public static void main(String[] args) {
6
7         C08_Encapsulation08 obj1=new C08_Encapsulation08();
8
9         System.out.println(obj1.getOkulIsmi()); // Yildiz Koleji
10        System.out.println(obj1.getOkulNo()); // 12345
11        System.out.println(obj1.isOkulAcikMi()); // true
12
13        obj1.setOkulIsmi("Mehmet Koleji");
14        // obj1 icin okul ismini degistirmis olduk
15        System.out.println(obj1.getOkulIsmi());
16
17        C08_Encapsulation08 obj2=new C08_Encapsulation08();
18        System.out.println(obj2.getOkulIsmi()); // Yildiz Koleji
19
20        obj2.setOkulNo(123);
21        System.out.println(obj2.getOkulNo()); // 123
22
23        obj2.setOkulAcikMi(false);
24        System.out.println(obj2.isOkulAcikMi()); // false
25    }
26
27 }
28 }
```

Run: C:\Users\HP\.jdks\openjdk-18.0.2\bin\java.exe
Yildiz Koleji
12345
true
Mehmet Koleji
Yildiz Koleji
123
false
Process finished with exit code 0

Git Debug TODO Problems Terminal Services Build

All files are up-to-date (moments ago) 11:1 CRLF windows-1254 Tab* master

File Edit View Navigate Code Refactor Build Run Tools Git Window Help Java2021allfiles - C09_Book.java [Java2021allfiles]

Java2021allfiles > src > JavaKonusalSorular > Pratik17_Encapsulation > Pr04 > C09_Book

Project Commit Pull Requests Bookmarks Structure

Proje... + - | ava x C06_StudentsRunner.java x C07_Odev.java x C08_Encapsulation08.java x C08_Encapsulation08Runner.java x C09_Book.java x C09_BookRunner.java x ... Notifications Run

```
1 package JavaKonusalSorular.Pratik17_Encapsulation.Pr04;
2
3 public class C09_Book {
4
5     /*
6      Book class'i verilmistir.
7      iki tane attributes olusturunuz.
8      bookName ve authorName (String ile)
9      Book class'ini kapsuleyin. (Encapsulate)
10     Main class'in icine object olusturun ve sonucu yazdiriniz.
11
12     "Book name is BOOKNAME and Author is AUTHORMNAME"
13     */
14
15     // 1. adim da private leri olusturuyorum...
16     private String bookName;
17     private String authorName;
18
19     // 2. adimda ise getters ve setters seceneklerini seciyorum
20     public String getBookName() {
21         return bookName;
22     }
23     public void setBookName(String bookName) {
24         this.bookName = bookName;
25     }
26     public String getAuthorName() {
27         return authorName;
28     }
29     public void setAuthorName(String authorName) {
30         this.authorName = authorName;
31     }
32
33 }
```

Git Debug TODO Problems Terminal Services Build

All files are up-to-date (a minute ago) 32:9 CRLF windows-1254 Tab* master

File Edit View Navigate Code Refactor Build Run Tools Git Window Help Java2021allfiles - C09_BookRunner.java [Java2021allfiles]

Java2021allfiles > src > JavaKonusalSorular > Pratik17_Encapsulation > Pr04 > C09_BookRunner

Project Commit Pull Requests Bookmarks Structure

Proje... + Encapsulation08.java × C08_Encapsulation08Runner.java × C09_Book.java × C09_BookRunner.java × Run: C09_BookRunner × Notifications

C:\Users\HP\.jdks\openjdk-18.0.2\bin\java.exe "-javaagent:son okudugunuz kitabı giriniz : Vurun Kahpeye 1. Kitabım :calikusu ikinci kitabım : Vurun Kahpeye Process finished with exit code 0

1 package JavaKonusalSorular.Pratik17_Encapsulation.Pr04;
2
3 import java.util.Scanner;
4
5 public class C09_BookRunner {
6
7 public static void main(String[] args) {
8 // 3. adımda ise C09_Book için obje oluşturuyorum
9
10 C09_Book kitap=new C09_Book();
11
12 // 4. adımda scan oluşturup 1.kitap ismini ekledim
13 // 2. Kitabı kullanıcidan istedim
14 Scanner scan = new Scanner(System.in);
15
16 System.out.print("son okudugunuz kitabı giriniz : ");
17 String kitap2 = scan.nextLine();
18 kitap.setBookName("calikusu");
19 kitap.setAuthorName(kitap2);
20 System.out.println("1. kitabım :" + kitap.getBookName()
21 + " ikinci kitabım :" + kitap.getAuthorName());
22
23 scan.close();
24 }
25
26 }
27

Git Debug TODO Problems Terminal Services Build

All files are up-to-date (moments ago)

6:1 CRLF windows-1254 Tab* master

File Edit View Navigate Code Refactor Build Run Tools Git Window Help Java2021allfiles - AdemOglu.java [Java2021allfiles]

Java2021allfiles > src > JavaKonusalSorular > Pratik17_Encapsulation > Pr05 > AdemOglu C10_EmployeesCalisanlarRunner

Project Commit Pull Requests Bookmarks Structure

Proj... + ☰ AdemOglu.java

C10_EmployeesCalisanlarRunner.java

1 package JavaKonusalSorular.Pratik17_Encapsulation.Pr05;
2
3 public class AdemOglu {
4 //instance variable class levelde create edilir. property field attribute de denir
5 String adi;
6 String soyadi;
7 private int yas;
8 //yas verisini istedigim surelarda kullanmasi icin private yaparak koruma altina oldum ve kullanim sureclerini ben vereiyorum.
9
10 //private degiskene ulasmak icin method yazilmali
11 //setter method : variable daki veriyi update eder degistirir.bu metod parametreli olmali
12
13 public void setYas(int yas) { //setter method : variable daki veriyi update eder degistirir.bu metod parametreli olmali
14 if (yas>0) { //deger girme kontrolu yapildi.
15 this.yas = yas; //parametre olarak giren yas degerini instance variable yasa ato
16 System.out.println("Vaaay hic de gosterdim aga....goyet basarili :)");
17
18 } else this.yas=-yas;
19
20 // 2. yol this.yas=Math.abs(yas); yasi math clasindan mutlak deger metoduna attik
21 }
22
23
24 //getter Method : variable daki veriyi getirir.bu method parametresiz olmali
25 public int getYas(){
26 return this.yas;
27 }
28
29
30
31
32
33
34

Git Debug TODO Problems Terminal Services Build

Build completed successfully in 39 sec, 964 ms (2 minutes ago)

31:1 LF UTF-8 4 spaces master

File Edit View Navigate Code Refactor Build Run Tools Git Window Help Java2021allfiles - KisiMain.java [Java2021allfiles]

Java2021allfiles > src > JavaKonusalSorular > Pratik17_Encapsulation > Pr05 > KisiMain > main

Project Commit Pull Requests Bookmarks Structure

Proj... + ☰ KisiMain C10_EmployeesCalisanlarRunner.java AdemOglu.java KisiMain.java

Run: KisiMain C:\Users\HP\.jdks\openjdk-18.0.2\bin\java.exe "-java Haluk yas = 47

Process finished with exit code 0

Notifications Run

```
package JavaKonusalSorular.Pratik17_Encapsulation.Pr05;
public class KisiMain {
    public static void main(String[] args) {
        AdemOglu insan1=new AdemOglu(); //parametresiz cons kullanildi Kisi classindan insan1 obj uretildi
        insan1.adi="haluk";
        insan1.soyadi="bilgin"; // insan1 obj tüm fieldlerine direkt ulasabildik.
        insan1.setYas(-47); // yas field private oldug icin bu veriyi setYas methodu ile giris yoptik
        // Kullanici hatasi veri girmesini engellemek icin variable erisime kapatilmali.
        System.out.println("Haluk yas = " + insan1.getYas()); // 47
    }
}
```

Git Debug TODO Problems Terminal Services Build

Build completed successfully in 1 min, 8 sec (moments ago) 5:1 LF UTF-8 4 spaces master

File Edit View Navigate Code Refactor Build Run Tools Git Window Help Java2021allfiles - Araba.java [Java2021allfiles]

Java2021allfiles > src > JavaKonusalSorular > Pratik17_Encapsulation > Pr06 > Araba

Project Commit Pull Requests Bookmarks Structure

Araba.java

```
1 package JavaKonusalSorular.Pratik17_Encapsulation.Pr06;
2 /* 1- filedeler model(String), renk(String), motor(int), yil (int)
3  olan Araba isimli bir class tanimlayiniz.
4  2- bütün fieldeleri parametre olan bir constructor tanimlayiniz.
5  3- bütün fieldeleri için getter ve setter metodları olusturunuz.
6  4- ArabaMain isminden main için bir class olusturunuz.
7  5- İki adet parametreli const 1 adet parametresiz cons ile 3 adet araba creat ediniz
8  6- aracların motor ve yilini hatalı veri girisine karsi kapsuleleyiniz */
9
10 public class Araba {
11
12     private String model;
13     private String renk;
14     private int motor;
15     private int yil;
16     public Araba(){//parametresiz constructor otomatik parametrelili cons default cons ezdigi icin
17 }
18
19 //parametrelili constructor ...sağ tik--> Generate-->Constructor...
20     public Araba(String model, String renk, int motor, int yil) {
21
22         // this.model = model;
23         // this.renk = renk;
24         // this.motor = motor;
25         // this.yil = yil;
26         // this.yil = yil;-->uretilen obj nin yil degeri buradan alırsa sete girmeden düzenlenmeden alınır
27         // this.beugir = beugir;
28         //cons obj parametrelere hatalı üretmesin diye field yani däğerleri encapsule ederek get set metodlarında gönderilmesi
29         // yoksa yil volvoda hatalı -2020 girilir
30         setModel(model);
31         setRenk(renk);
32         setMotor(motor); // uretilen obj nin beugir degeri set metodundan almalı
33         setYil(yil); // uretilen obj nin yil degeri set metodundan almalı.yil verisi setYil metoduna parametre yapılark
34         // bu verinim setYil metodu tarafından işlenmesi sağlanır
35     }
}
```

Git Debug TODO Problems Terminal Services Build

Build completed successfully in 1 min, 8 sec (2 minutes ago)

8:71 LF UTF-8 4 spaces master

File Edit View Navigate Code Refactor Build Run Tools Git Window Help Java2021allfiles - Araba.java [Java2021allfiles]

Java2021allfiles > src > JavaKonusalSorular > Pratik17_Encapsulation > Pr06 > Araba

Project Commit Pull Requests Bookmarks Structure

C10_EmployeesCalisanlarRunner.java AdemOglu.java KisiMain.java Araba.java

Araba.java

```
35     }
36     //getter setter methodlari...sağ tık--> Generate-->Getter and Setter...
37
38     public String getModel() {
39         return model;
40     }
41     public void setModel(String model) {
42         this.model = model;
43     }
44     public String getRenk() {
45         return renk;
46     }
47     public void setRenk(String renk) {
48         this.renk = renk;
49     }
50     public int getMotor() {
51         return motor;
52     }
53     public void setMotor(int motor) {
54         this.motor = motor;
55     }
56     public int getYil() {
57         return yil;
58     }
59     public void setYil(int yil) {
60         if (yil>0) {
61             this.yil = yil;
62         }else
63             System.out.println("yili negatif olamaz...");
64     }
65
66 }
67 }
```

Notifications Run

Git Debug TODO Problems Terminal Services Build

Build completed successfully in 1 min, 8 sec (3 minutes ago)

37:5 LF UTF-8 4 spaces master

File Edit View Navigate Code Refactor Build Run Tools Git Window Help Java2021allfiles - ArabaMain.java [Java2021allfiles]

Java2021allfiles > src > JavaKonusalSorular > Pratik17_Encapsulation > Pr06 > ArabaMain

ArabaMain

ArabesCalisanlarRunner.java AdemOglu.java KisiMain.java Araba.java ArabaMain.java

Run: ArabaMain

Notifications

Project Commit Pull Requests Bookmarks Structure

ArabaMain.java

```
package JavaKonusalSorular.Pratik17_Encapsulation.Pr06;

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

        Araba honda = new Araba(); //Araba classından honda obj üretti. parametresiz cons ile ...
        // honda.model="accord"; ..private yapınca obj üzerinden direk ulaşılabilir
        // honda.renk="beyaz";
        // honda.motor=2000;
        // honda.yil=2016;

        honda.setModel("accord"); //honda obj değerlerini set methodu ile atadık
        honda.setRenk("beyaz");
        honda.setMotor(2000);
        honda.setYil(2016);
        Araba toyota =new Araba( model: "corolla", renk: "gri", motor: 1600, yıl: 2020);
        //toyota obj parametreli cons üretti
        Araba volvo =new Araba( model: "s80", renk: "mavi", motor: 1600, yıl: -2020);
        //volvo obj parametreli cons üretti
        System.out.println("volvo.getYil() = " + volvo.getYil());
    }
}
```

C:\Users\HP\.jdks\openjdk-18.0.2\bin\java.exe "-java" yili negatif olamaz... volvo.getYil() = 0

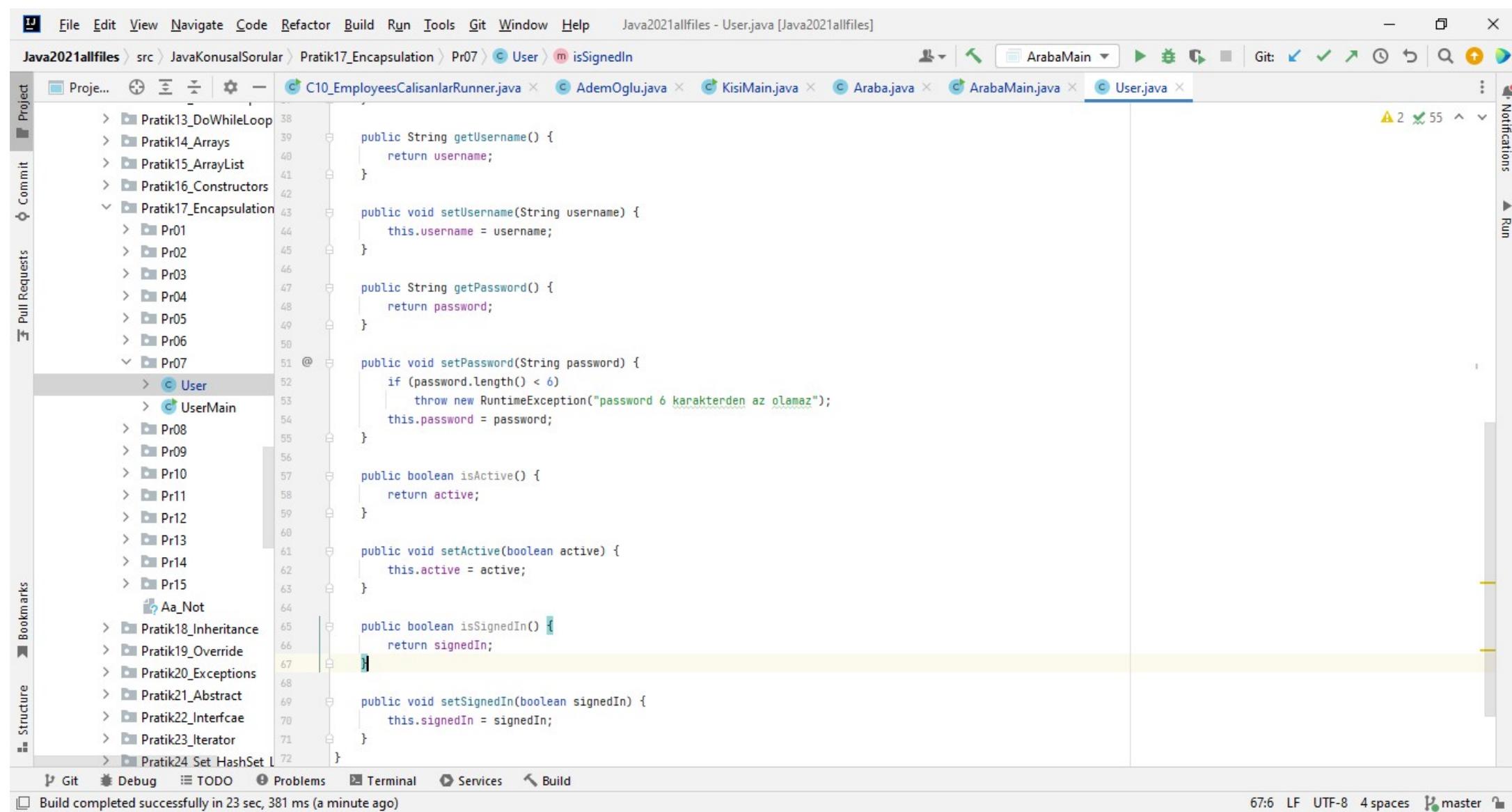
Process finished with exit code 0

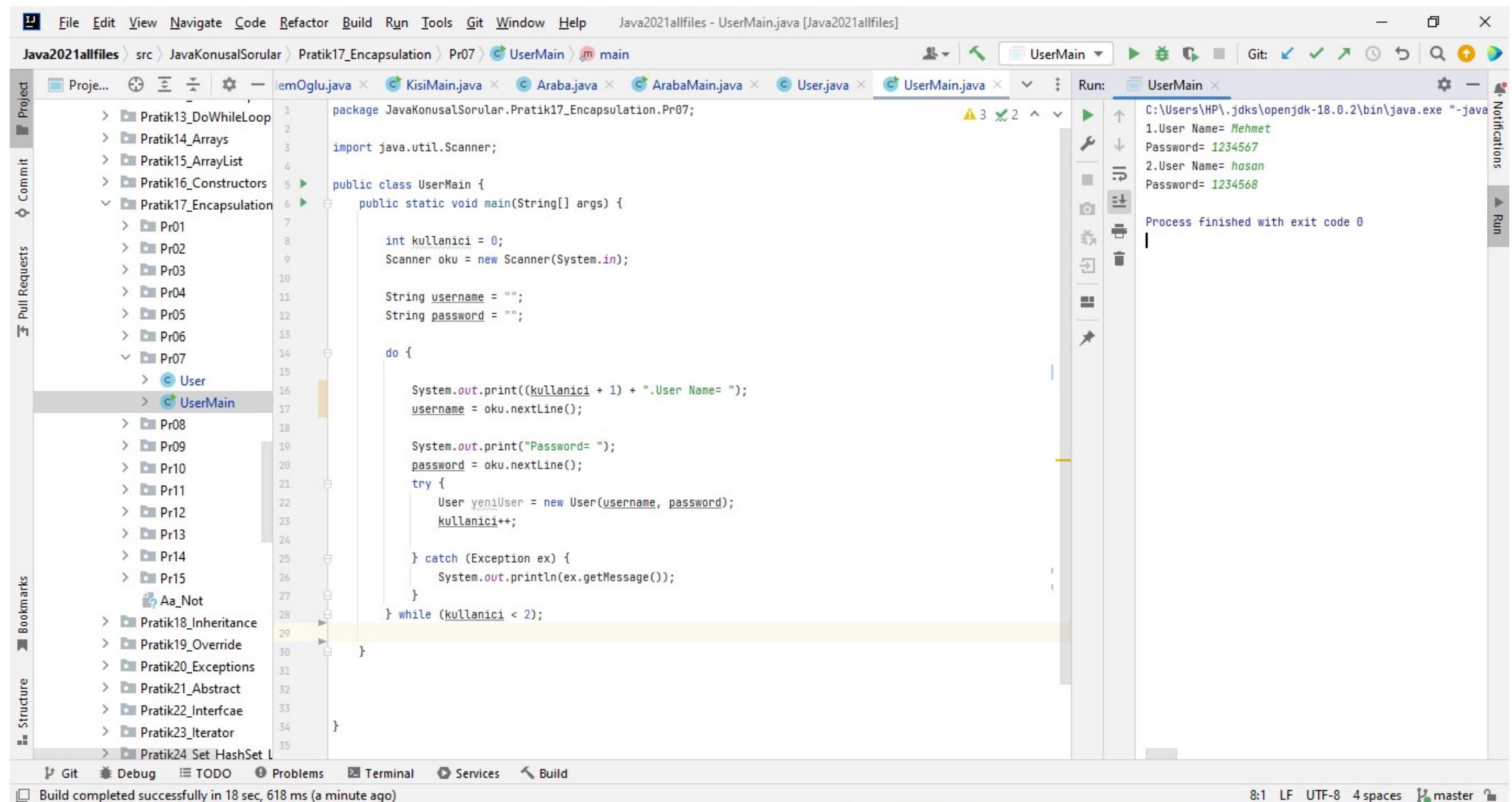
Git Debug TODO Problems Terminal Services Build

Build completed successfully in 23 sec, 381 ms (moments ago) 22:2 LF UTF-8 4 spaces master

The screenshot shows the IntelliJ IDEA interface with the following details:

- File Bar:** File, Edit, View, Navigate, Code, Refactor, Build, Run, Tools, Git, Window, Help.
- Title Bar:** Java2021allfiles - User.java [Java2021allfiles]
- Toolbar:** Includes icons for Project, Commit, Pull Requests, Bookmarks, Structure, Git, Debug, TODO, Problems, Terminal, Services, Build, and Notifications.
- Project Tree:** Shows the project structure with modules like Pratik13_DoWhileLoop, Pratik14_Arrays, Pratik15_ArrayList, Pratik16_Constructors, Pratik17_Encapsulation, and sub-modules Pr01 through Pr07. The file User.java is selected in the Pr07 module.
- Code Editor:** Displays the Java code for User.java. The code defines a class User with fields id, username, password, active, and signedIn, and a constructor that initializes these fields and sets signedIn to false. It also includes getter and setter methods for id and a static field sayac.
- Status Bar:** Shows the build status as "Build completed successfully in 23 sec, 381 ms (a minute ago)" and the current branch as "master".





File Edit View Navigate Code Refactor Build Run Tools Git Window Help Java2021allfiles - Banka.java [Java2021allfiles]

Java2021allfiles > src > JavaKonusalSorular > Pratik17_Encapsulation > Pr09 > Banka

Project Commit Pull Requests Bookmarks Structure

ArabaMain.java User.java UserMain.java Ogrenci.java Account.java Banka.java

Run: Banka

C:\Users\HP\.jdks\openjdk-18.0.2\bin\java.exe "-javaagent:D:\Program Files\JetBrains\IntelliJ IDEA 2021.3.1\lib\idea_rt.jar" -Dfile.encoding=UTF-8 -jar "C:\Users\HP\IdeaProjects\Java2021allfiles\target\Java2021allfiles-1.0-SNAPSHOT.jar" -Didea.config.home=C:\Users\HP\IdeaProjects\Java2021allfiles

account1.balance = 1000.0
account1.balance = 500.0
account1.balance = 500.0
Günlük Limiti aştınız

Process finished with exit code 0

```
1 package JavaKonusalSorular.Pratik17_Encapsulation.Pr09;
2
3 public class Banka {
4     public static void main(String[] args) {
5         // 1- bir Account sınıfı oluşturunuz, fieldları accountNumber ve balance (bakiye).
6         // 2- bir constructor ekleyiniz.
7         // 3- Account sınıfında deposit (ParaEkle) metodu ekleyiniz.
8         // 4- Account sınıfında withdraw (ParaÇıkar) metodu ekleyiniz.
9         // 5- withdraw de 5000 inin üzerine Günlük limiti aştınız uyarısı verelim
10        // 6- main metodunda account oluşturarak ihtiyalleri deneyiniz.
11
12        try {
13            Account account1 = new Account();
14            account1.deposit( incomeMoney: 1000 );
15            System.out.println("account1.balance = " + account1.getBalance());
16            account1.withdraw( outcomeMoney: 500 );
17            System.out.println("account1.balance = " + account1.getBalance());
18            // account1.balance=100000;
19            System.out.println("account1.balance = " + account1.getBalance());
20
21            account1.withdraw( outcomeMoney: 6000 );
22
23        } catch (Exception ex) {
24            System.out.println(ex.getMessage());
25        }
26    }
27}
28
```

Git Debug TODO Problems Terminal Services Build

Build completed successfully in 9 sec, 996 ms (moments ago)

28:1 LF UTF-8 4 spaces master

File Edit View Navigate Code Refactor Build Run Tools Git Window Help Java2021allfiles - Account.java [Java2021allfiles]

Java2021allfiles > src > JavaKonusalSorular > Pratik17_Encapsulation > Pr09 > Account

Project Commit Pull Requests Bookmarks Structure

AdemOglu.java X KisiMain.java X Araba.java X ArabaMain.java X User.java X UserMain.java X Ogrenci.java X Account.java X Banka.java X

Notifications

```
1 package JavaKonusalSorular.Pratik17_Encapsulation.Pr09;
2
3 public class Account {
4     int accountNumber; // müşteri hesap no
5     private double balance; // bakiye
6
7     private static int Number = 1; // otomatik verilecek sayac
8
9     public Account() { this.accountNumber = Number++; }
10
11    public void deposit(double incomeMoney) // gelen para
12    {
13        this.balance += incomeMoney;
14    }
15
16    public void withdraw(double outcomeMoney) // giden para
17    {
18        if (outcomeMoney > 5000)
19            throw new RuntimeException("Günlük Limiti aştınız");
20
21        if (outcomeMoney > this.balance)
22            throw new RuntimeException("Yetersiz Bakiye..");
23
24        this.balance -= outcomeMoney;
25    }
26
27
28    public double getBalance() { return balance; }
29
30    public int getAccountNumber() { return accountNumber; }
31
32
33
34
35
36
37
38 }
```

Git Debug TODO Problems Terminal Services Build

Build completed successfully in 9 sec, 996 ms (a minute ago) 38:1 LF UTF-8 4 spaces master

File Edit View Navigate Code Refactor Build Run Tools Git Window Help Java2021allfiles - BMI.java [Java2021allfiles]

Java2021allfiles > src > JavaKonusalSorular > Pratik17_Encapsulation > Pr10 > BMI > bmiHesapla

Project Commit Pull Requests Bookmarks Structure

Notifications

```
1 package JavaKonusalSorular.Pratik17_Encapsulation.Pr10;
2
3 public class BMI {
4     /*
5         1 ) BMI ve MainBMI class'larıcreat ediniz
6         2 ) BMI class'ı için field'lari name(String), age(int), weight(double) ve height(double) olan variable'lar olusturup tüm variable'leri encapsule ediniz.
7         3 ) tüm field'lari setter getter ve constructor creat ediniz.
8         4 ) bmi=weight/(height*height) formülüne göre bmi hesaplayan bir method creat ediniz.
9         5 ) bmi 18.5 ten kucukse zayıf, 25 ten kucukse normal, 30 dan kucukse kilolu, 30 ustu obez durumunu veren method creat ediniz.
10        6 ) MainBMI de bu değerleri yazdırınız.
11    */
12
13     //name, age, weight,height
14     private String name;
15     private int age;
16     private double weight;
17     private double height; //1.60
18
19     // bmi=weight/(height*height) getBMI()
20     // bmi 18.5 ten kucukse zayıf, 25 ten kucukse normal, 30 dan kucukse kilolu, 30 ustu obez getStatus()
21
22     public BMI(String name, int age, double weight, double height) {
23         setAge(age);
24         setHeight(height);
25         setName(name);
26         setWeight(weight);
27     }
28
29     public double bmiHesapla() {
30         double bmi = weight / (height * height);
31         return Math.round(bmi);
32     }
33
34     public String durum() {
35 }
```

Git Debug TODO Problems Terminal Services Build

Build completed successfully in 9 sec, 996 ms (2 minutes ago) 32:6 LF UTF-8 4 spaces master

File Edit View Navigate Code Refactor Build Run Tools Git Window Help Java2021allfiles - BMI.java [Java2021allfiles]

Java2021allfiles > src > JavaKonusalSorular > Pratik17_Encapsulation > Pr10 > BMI > bmiHesapla

Project Commit Pull Requests Bookmarks Structure

Projek... + E - | KisiMain.java X Araba.java X ArabaMain.java X User.java X UserMain.java X Ogrenci.java X Account.java X BMI.java X Banka.java X

Notifications

```
35      double bmi = bmiHesapla();
36
37      if (bmi < 18.5)
38          return "zayıf";
39
40      else if (bmi < 25)
41          return "normal";
42
43      else if (bmi < 30)
44          return "kilolu";
45
46      else
47          return "obez";
48
49 }
50
51
52     public String getName() { return name; }
53
54     public void setName(String name) { this.name = name; }
55
56     public int getAge() { return age; }
57
58     public void setAge(int age) { this.age = age; }
59
60     public double getWeight() { return weight; }
61
62     public void setWeight(double weight) { this.weight = weight; }
63
64     public double getHeight() { return height; }
65
66     public void setHeight(double height) { this.height = height; }
67
68 }
69
70
71
72
73
74
75
76
77
78
79
80
81
82
83
84 }
```

Git Debug TODO Problems Terminal Services Build

Build completed successfully in 9 sec, 996 ms (2 minutes ago) 32:6 LF UTF-8 4 spaces master

File Edit View Navigate Code Refactor Build Run Tools Git Window Help Java2021allfiles - MainBMI.java [Java2021allfiles]

Java2021allfiles > src > JavaKonusalSorular > Pratik17_Encapsulation > Pr10 > MainBMI

Project Commit Pull Requests Bookmarks Structure

Proje... + E - | User.java X UserMain.java X Ogrenci.java X Account.java X BMI.java X MainBMI.java X Run: MainBMI X

MainBMI.java

```
1 package JavaKonusalSorular.Pratik17_Encapsulation.Pr10;
2
3 public class MainBMI {
4
5     public static void main(String[] args) {
6
7         BMI bm1 = new BMI( name: "Alice", age: 18, weight: 80, height: 1.60);
8
9         System.out.println("BMI:" + bm1.getName() + " " + bm1.durum() + " " + bm1.bmiHesapla());
10    }
11 }
12 }
```

C:\Users\HP\.jdks\openjdk-18.0.2\bin\java.exe "-java" BMI:Alice obez 31.0
Process finished with exit code 0

Run Requests Notifications

Git Debug TODO Problems Terminal Services Build

Build completed successfully in 12 sec, 112 ms (a minute ago)

12:1 LF windows-1254 4 spaces master

File Edit View Navigate Code Refactor Build Run Tools Git Window Help Java2021allfiles - Book.java [Java2021allfiles]

Java2021allfiles > src > JavaKonusalSorular > Pratik17_Encapsulation > Pr11 > Book

Project Commit Pull Requests Bookmarks Structure

Proj... + E - ⚙ -

User.java X UserMain.java X Ogrenci.java X Account.java X BMI.java X MainBMI.java X _05_Encapsulation5.java X Book.java X Banka.java X

Notifications Run

```
1 package JavaKonusalSorular.Pratik17_Encapsulation.Pr11;
2
3 class Book {
4     String bookName;
5     String authorName;
6
7     public String getBookName() {
8         return bookName;
9     }
10
11    public void setBookName(String bookName) {
12        this.bookName = bookName;
13    }
14
15    public String getAuthorName() {
16        return authorName;
17    }
18
19    public void setAuthorName(String authorName) {
20        this.authorName = authorName;
21    }
22
23}
24
25}
26
27}
28}
```

Git Debug TODO Problems Terminal Services Build

All files are up-to-date (moments ago) 3:7 LF windows-1254 4 spaces master

File Edit View Navigate Code Refactor Build Run Tools Git Window Help Java2021allfiles - _05_Encapsulation5.java [Java2021allfiles]

Java2021allfiles > src > JavaKonusalSorular > Pratik17_Encapsulation > Pr11 > _05_Encapsulation5 > main

Project Commit Pull Requests Bookmarks Structure

ain.java Ogrenci.java Account.java BMI.java MainBMI.java _05_Encapsulation5.java Book.java

Run: _05_Encapsulation5

Notifications Run

```
package JavaKonusalSorular.Pratik17_Encapsulation.Pr11;
import java.util.Scanner;
public class _05_Encapsulation5 {
    /* TODO
        Book class'ı verilmiştir.
        İki tane attributes oluşturunuz.
        bookName ve authorName (String ile)
        Book class'ını kapsülleyin. (Encapsulate)
        Main class'ının içine object oluşturun ve sonucu yazdırınız.

        todo "Book name is BOOKNAME and Author is AUTHORNAME"
    */
    public static void main(String[] args) {
        Scanner scan = new Scanner(System.in);
        System.out.print("bir kitap ismi giriniz : ");
        String kitap1 = scan.nextLine();
        System.out.print("bir kitap ismi adaha giriniz : ");

        String kitap2 = scan.nextLine();

        //BU SATIRIN YUKARISINI DEĞİŞTİRMEYİNİZ ve
        // Book class'ında setter'i ayarlarken bu variable'lari kullanınız.

        Book kitap = new Book();
        kitap.setAuthorName(kitap2);
        kitap.setBookName(kitap1);

        System.out.println("1. kitabım : " + kitap.getBookName() + " ve 2. kitabım : " + kitap.getAuthorName());
    }
}
```

Git Debug TODO Problems Terminal Services Build

All files are up-to-date (a minute ago)

C:\Users\HP\.jdks\openjdk-18.0.2\bin\java.exe "-javaagent: C:\Users\HP\IdeaProjects\Java2021allfiles\target\javaagent.jar" -Dfile.encoding=UTF-8 -jar C:\Users\HP\IdeaProjects\Java2021allfiles\target\classes.jar

bir kitap ismi giriniz : Vurun Kahpeye
bir kitap ismi adaha giriniz : Çalikuşu
1. kitabım : Vurun Kahpeye ve 2. kitabım : Çalikuşu

Process finished with exit code 0

File Edit View Navigate Code Refactor Build Run Tools Git Window Help Java2021allfiles - Employees.java [Java2021allfiles]

Java2021allfiles > src > JavaKonusalSorular > Pratik17_Encapsulation > Pr12 > Employees

UserMain.java X OGRENCI.java X Account.java X BMI.java X MainBMI.java X _05_Encapsulation5.java X Employees.java X Book.java X Bankajava X

Project Commit Pull Requests Bookmarks Structure

Notifications Run

```
1 package JavaKonusalSorular.Pratik17_Encapsulation.Pr12;
2 import ...
3 class Employees {
4
5     private String name;
6     private String dob; // doğum tarihi
7     private int salary;
8
9     public int YasHesapla(String dob) {
10
11         DateTimeFormatter format = DateTimeFormatter.ofPattern("MM/dd/yyyy");
12         LocalDate dTarih = LocalDate.parse(dob, format);
13
14         LocalDate bugun = LocalDate.now();
15         // Period fark = Period.between(tarih, bugun);
16         // int yas = fark.getYears();
17
18         int yas = bugun.getYear() - dTarih.getYear();
19         return yas;
20     }
21
22     public String getName() {
23         return name;
24     }
25
26     public void setName(String name) { this.name = name; }
27
28     public int getSalary() { return salary; }
29
30     public void setSalary(int salary) { this.salary = salary; }
31
32     public String getDob() { return dob; }
33
34     public void setDob(String dob) { this.dob = dob; }
35
36
37
38
39
40
41
42
43
44
45
46 }
```

Git Debug TODO Problems Terminal Services Build

All files are up-to-date (2 minutes ago) 46:2 LF UTF-8 4 spaces master

File Edit View Navigate Code Refactor Build Run Tools Git Window Help Java2021allfiles - _02_Encapsulation2.java [Java2021allfiles]

Java2021allfiles > src > JavaKonusalSorular > Pratik17_Encapsulation > Pr12 > _02_Encapsulation2

Project Commit Pull Requests Bookmarks Structure

Run: _02_Encapsulation2

C:\Users\HP\.jdks\openjdk-18.0.2\bin\java.exe "-javaagent: C:\Users\HP\IdeaProjects\Java2021allfiles\target\javaagent.jar" -Dfile.encoding=UTF-8 -jar C:\Users\HP\IdeaProjects\Java2021allfiles\target\classes\main.jar

Notifications Run

Pratik13_DoWhileL
Pratik14_Arrays
Pratik15_ArrayList
Pratik16_Construct
Pratik17_Encapsulation
Pr01
Pr02
Pr03
Pr04
Pr05
Pr06
Pr07
Pr08
Pr09
Pr10
Pr11
Pr12
_02_Encapsulation
Employees
Pr13
Pr14
Pr15
Aa_Not
Pratik18_Inheritance
Pratik19_Override
Pratik20_Exception
Pratik21_Abstract
Pratik22_Interface
Pratik23_Iterator
Pratik24_Set_Hash

package JavaKonusalSorular.Pratik17_Encapsulation.Pr12;

import java.util.Scanner;

public class _02_Encapsulation2 {

/* T000
 * Burada iki gđet class vardır. Biri Main diđeri ise Employees,
 * Employees(Çalışanlar) class'ında;
 * Bu variable'lari olusturunuz;
 * private String name,
 * private int salary,
 * private String dob (date of birth) (Dođum tarihi)
 * getter ve setter olusturunuz.

 * Main class'in içinde; kullanıcidan name dob ve salary bilgilerini alıp
 * Eğer employee 18 yaşında büyükse, Welcome to our company Fernando your salary is 80000. yazdırın.
 * Eğer Fernando 18 yaşından küçükse, come back when you are 18 years old. yazdırın.
 * Eğer Fernando 18 yaşındaysa, we can have inter with you after that you can have a 80000 salary yazdırın.

 * Örnek:
 * Name is Fernando
 * dob is 11/23/2000
 * Salary is 80000
 * todo ageCalculator isminde bir method oluşturunuz. Şuanki tarih - doğum yılı = employee age */

public static void main(String[] args) {

Scanner scan = new Scanner(System.in);
 System.out.print("adinizi giriniz : ");
 String name = scan.nextLine();
 System.out.print("d tarihini MM/dd/yyyy formatında giriniz : ");
 String dob = scan.nextLine();
 System.out.print("maas talebinizi giriniz : ");

Process finished with exit code 0

Build completed successfully in 15 sec, 170 ms (a minute ago)

File Edit View Navigate Code Refactor Build Run Tools Git Window Help Java2021allfiles - _02_Encapsulation2.java [Java2021allfiles]

Java2021allfiles > src > JavaKonusalSorular > Pratik17_Encapsulation > Pr12 > _02_Encapsulation2

Project Commit Pull Requests Bookmarks Structure

Run: _02_Encapsulation2

C:\Users\HP\.jdks\openjdk-18.0.2\bin\java.exe "-javaagent: C:\Users\HP\IdeaProjects\Java2021allfiles\target\javaagent.jar" -Dfile.encoding=UTF-8 -jar C:\Users\HP\IdeaProjects\Java2021allfiles\target\classes\main\02_Encapsulation2.jar

maas talebinizi giriniz : Fernando
adınızı giriniz : Fernando
maas talebinizi giriniz : 80000
Welcome to our company Fernando your salary is 80000.

Process finished with exit code 0

```
34 System.out.print("maas talebinizi giriniz : ");
35 int salary = scan.nextInt();
36
37 // BU SATIRIN YUKARISINI DEĞİŞTİRMEYİNİZ ve
38 // employees class'ında setter'i ayarlarken bu variable'lari kullanınız.
39
40 Employees calisan = new Employees();
41 calisan.setName(name);
42 calisan.setDob(dob);
43 calisan.setSalary(salary);
44
45 int elemanYas = calisan.YasHesapla(dob);
46
47
48 if (elemanYas > 18) {
49     System.out.println(" Welcome to our company " + name + " your salary is " + salary + ".");
50 }
51
52 else if (elemanYas < 18) {
53     System.out.println("come back when you are 18 years old.");
54 }
55
56 else {
57     System.out.println("we can have inter with you after that you can have a " + salary + " salary");
58 }
59
60
61 }
```

Git Debug TODO Problems Terminal Services Build

Build completed successfully in 15 sec, 170 ms (a minute ago)

8:1 LF UTF-8 4 spaces master

File Edit View Navigate Code Refactor Build Run Tools Git Window Help Java2021allfiles - Ana.java [Java2021allfiles]

Java2021allfiles > src > JavaKonusalSorular > Pratik17_Encapsulation > Pr15 > Ana

Project Commit Pull Requests Bookmarks Structure

```
1 package JavaKonusalSorular.Pratik17_Encapsulation.Pr15;
2
3 public class Ana {
4
5     private String ad="Ahmet";
6     private int yas=40;
7     String adres="Ankara";
8
9     public Ana() { // parametresiz constructor
10    }
11
12    public Ana(String ad, int yas, String adres) { // parametreli constructor
13
14        this.ad = ad;
15        this.yas = yas;
16        this.adres=adres;
17    }
18
19    public String getAd() { return ad; }
20
21    public void setAd(String ad) { this.ad = ad; }
22
23    public int getYas() { return yas; }
24
25    public void setYas(int yas) { this.yas = yas; }
26
27    // toString();
28
29    @Override
30    public String toString() { return "Ana [ad=" + ad + ", yas=" + yas + ", adres=" + adres + "]"; }
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45 }
```

Git Debug TODO Problems Terminal Services Build

Build completed successfully in 15 sec, 170 ms (2 minutes ago)

26:1 CRLF windows-1254 Tab* master

File Edit View Navigate Code Refactor Build Run Tools Git Window Help Java2021allfiles - AnaMain.java [Java2021allfiles]

Java2021allfiles > src > JavaKonusalSorular > Pratik17_Encapsulation > Pr15 > AnaMain > main

Project Commit Pull Requests Bookmarks Structure

AnaMain.java

```
package JavaKonusalSorular.Pratik17_Encapsulation.Pr15;
import java.util.Scanner;
public class AnaMain {
    public static void main(String[] args) {
        Scanner scan=new Scanner(System.in);
        Ana obj1=new Ana();
        System.out.println(obj1.getAd()); // Ahmet
        System.out.println(obj1.getYas()); // 40
        System.out.println(obj1.adres); // Ankara
        System.out.println("~~~~~");
        Ana obj2=new Ana( ad: "Ali", yas: 25, adres: "Bolu");
        System.out.println(obj2.getAd());
        System.out.println(obj2.getYas());
        System.out.println(obj2.adres);
        // toString(); ana menude kullanmadan yazarsam referans numarası gönderir...
        System.out.println(obj1.toString()); // Ana [ad=Ahmet, yas=40, adres=Ankara]
        System.out.println(obj2.toString()); // Ana [ad=Ali, yas=25, adres=Bolu]
        scan.close();
    }
}
```

Run: AnaMain

C:\Users\HP\.jdks\openjdk-18.0.2\bin\java.exe "-javaagent:
Ahmet
40
Ankara
~~~~~  
Ali  
25  
Bolu  
Ana [ad=Ahmet, yas=40, adres=Ankara]  
Ana [ad=Ali, yas=25, adres=Bolu]  
Process finished with exit code 0

Git:

13:9 CRLF windows-1254 Tab\* master

File Edit View Navigate Code Refactor Build Run Tools Git Window Help Java2021allfiles - A.java [Java2021allfiles]

Java2021allfiles > src > JavaKonusalSorular > Pratik18\_Inheritance > Pr01 > A

Project Commit Pull Requests Bookmarks Structure

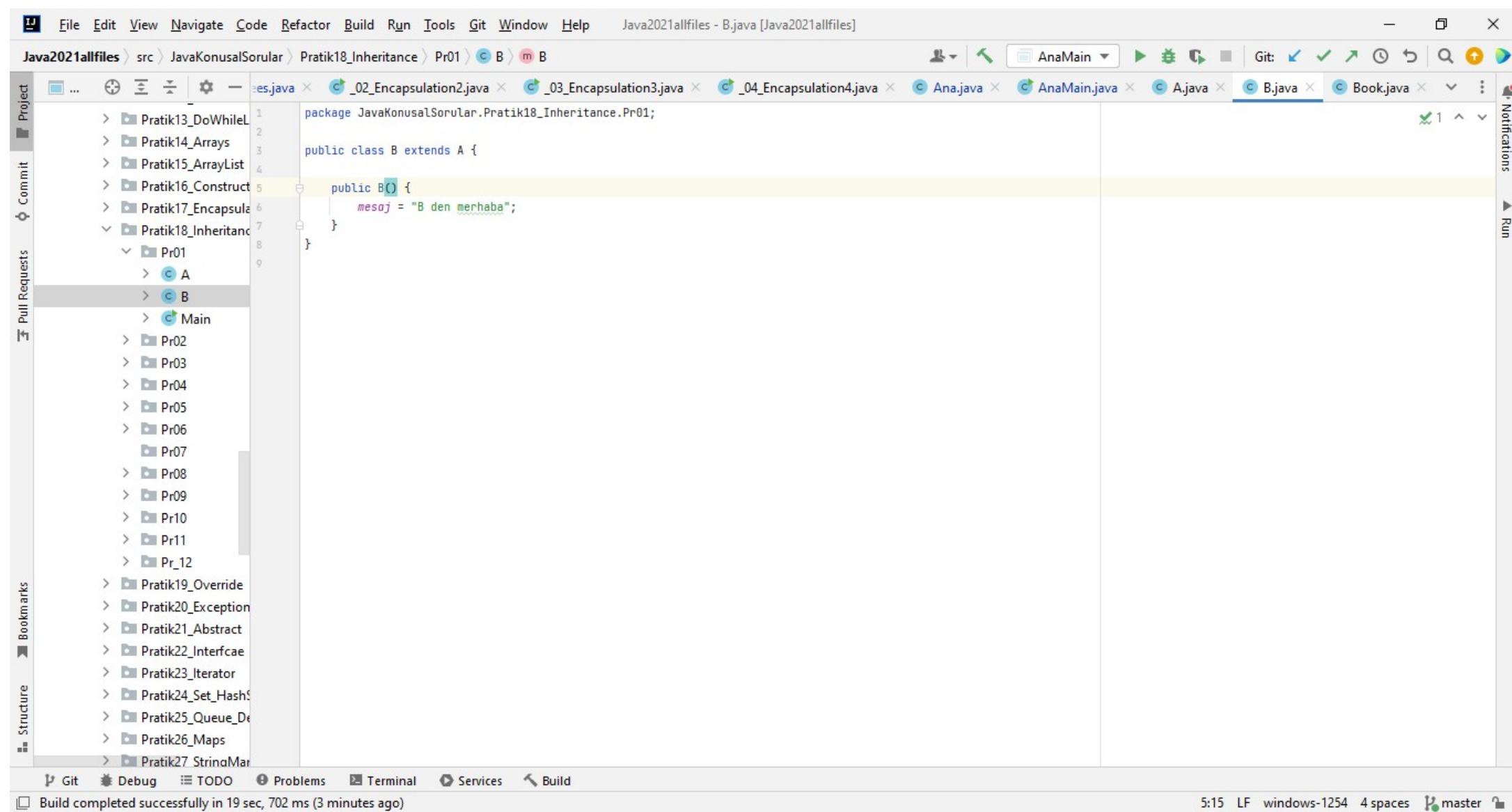
Employees.java \_02\_Encapsulation2.java \_03\_Encapsulation3.java \_04\_Encapsulation4.java Ana.java AnaMain.java A.java Book.java

Notifications Run

```
1 package JavaKonusalSorular.Pratik18_Inheritance.Pr01;
2
3     /* 1) A ve B isminde iki class creat ediniz.
4      2) B parent A child ilişkisi kurunuz.
5      3) A'da static initialize edilmiş String bir instance variable creat ediniz.
6      4) B de p'siz bir cons creat ediniz ve cons icinde Adaki variable call ederek assignment yapınız
7      5) Bir runner class creat edip her iki class dan obj üreterek variable print ediniz. */
8
9 public class A {
10     public static String mesaj = "A dan merhaba";
11
12 }
```

Git Debug TODO Problems Terminal Services Build

Build completed successfully in 19 sec, 702 ms (3 minutes ago) 9:14 LF windows-1254 4 spaces master



File Edit View Navigate Code Refactor Build Run Tools Git Window Help Java2021allfiles - Main.java [Java2021allfiles]

Java2021allfiles > src > JavaKonusalSorular > Pratik18\_Inheritance > Pr01 > Main

Project Commit Pull Requests Bookmarks Structure

04\_Encapsulation4.java An.java AnaMain.java A.java B.java Main.java

Main

C:\Users\HP\.jdks\openjdk-18.0.2\bin\java.exe "-javaagent" "a oluşturduğunda = A dan merhaba  
b oluşturduğunda = B den merhaba  
b den sonra a nın durumu = B den merhaba

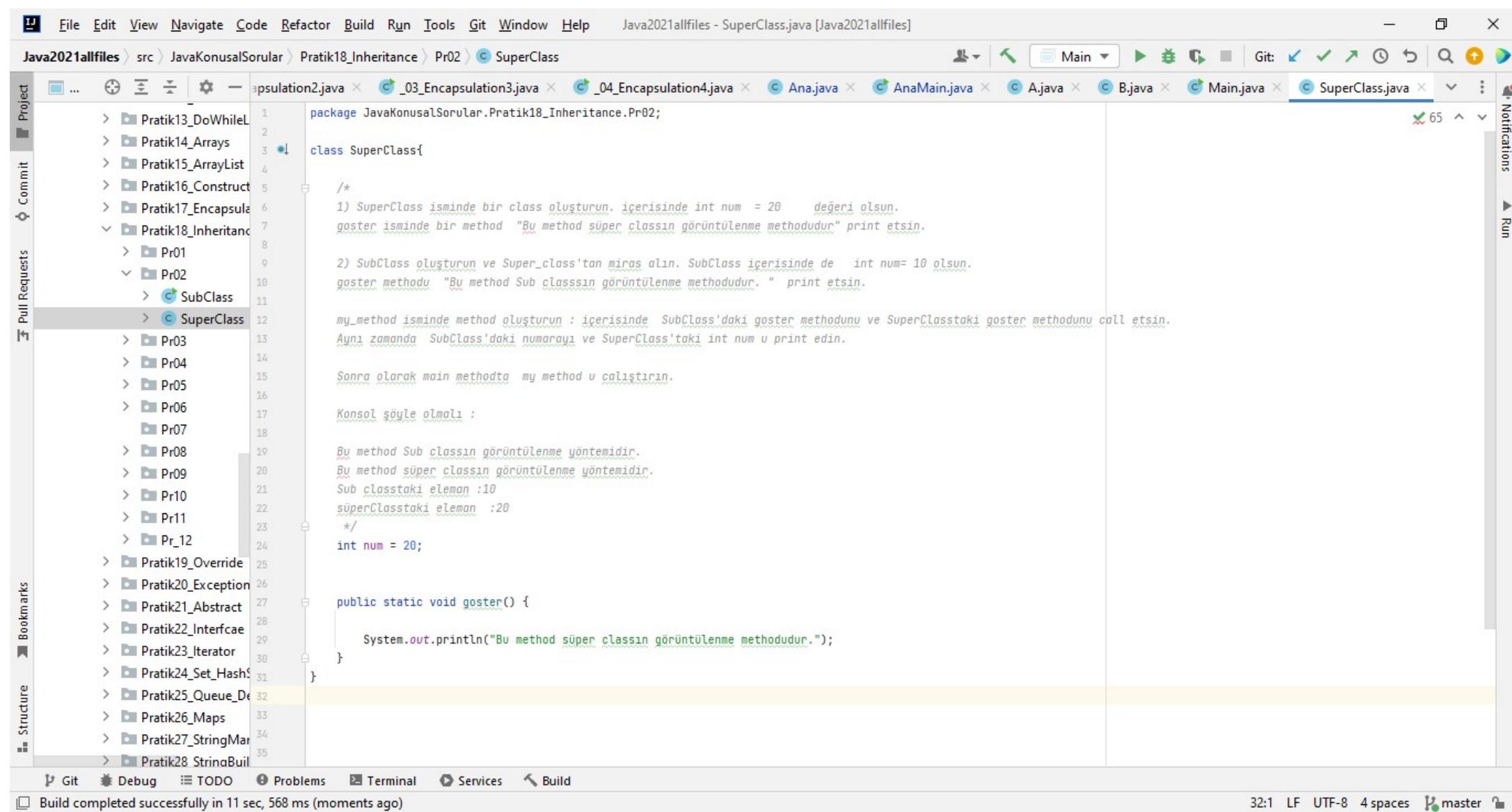
Process finished with exit code 0

```
1 package JavaKonusalSorular.Pratik18_Inheritance.Pr01;
2
3 public class Main {
4
5     public static void main(String[] args) {
6
7         A a = new A();
8         System.out.println("a oluşturulduğunda = " + A.mesaj);
9
10        B b = new B();
11        System.out.println("b oluşturulduğunda = " + B.mesaj);
12
13        System.out.println("b den sonra a nın durumu = " + A.mesaj);
14
15        /* Static değişkenin olduğu classlardan oluşturulan subclasslardan
16         static değişkenin değeri değiştirildiğinde super classdaki değer de değişir.
17         Çünkü static değişkenler hafızada tek bir değer gösterir. */
18    }
19
20
21 }
```

Git Debug TODO Problems Terminal Services Build

Build completed successfully in 11 sec, 568 ms (moments ago)

21:1 LF UTF-8 4 spaces master



File Edit View Navigate Code Refactor Build Run Tools Git Window Help Java2021allfiles - SubClass.java [Java2021allfiles]

Java2021allfiles > src > JavaKonusalSorular > Pratik18\_Inheritance > Pr02 > SubClass > my\_method

SubClass

SubClass.java

Run: SubClass

C:\Users\HP\.jdks\openjdk-18.0.2\bin\java.exe "-javaagent: C:\Users\HP\IdeaProjects\Java2021allfiles\target\javaagent.jar" -Dfile.encoding=UTF-8 -jar "C:\Users\HP\IdeaProjects\Java2021allfiles\target\classes.jar"

Notifications

Project

Commit

Pull Requests

Bookmarks

Structure

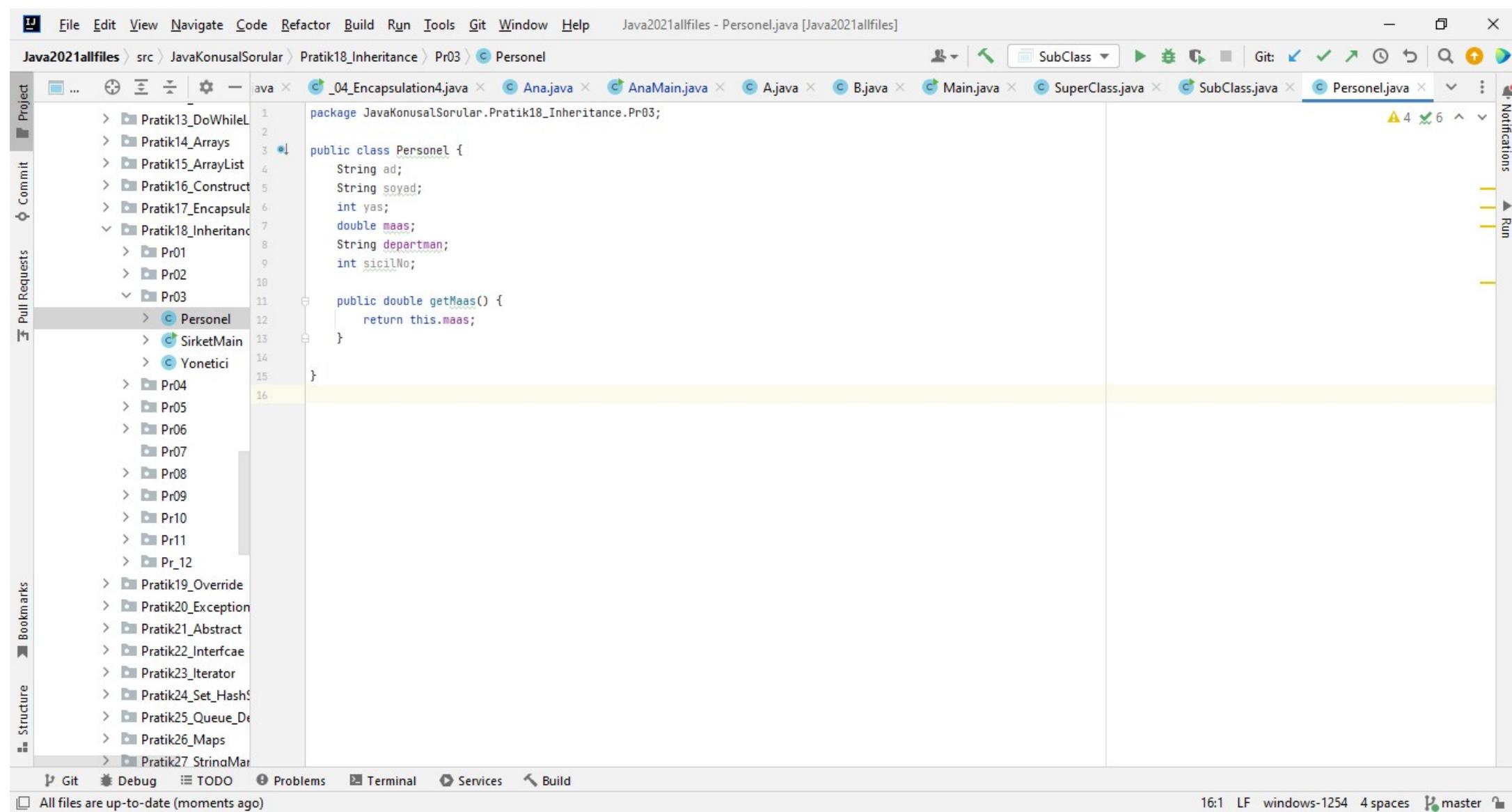
SubClass.java

```
1 package JavaKonusalSorular.Pratik18_Inheritance.Pr02;
2
3 public class SubClass extends SuperClass {
4
5     int num = 10;
6
7     public static void goster() {
8
9         System.out.println("Bu method Sub classin görüntülenme methodudur.");
10    }
11
12    public void my_method() {
13
14        SubClass sb = new SubClass();
15
16        SubClass.goster();
17
18        SuperClass.goster();
19
20        System.out.println("Sub classtaki eleman : " + sb.num);
21
22        System.out.println("superClasstaki eleman : " + super.num);
23    }
24
25    public static void main(String[] args) {
26
27        SubClass sb = new SubClass();
28
29        sb.my_method();
30    }
31
32}
33
```

Git Debug TODO Problems Terminal Services Build

All files are up-to-date (moments ago)

18:33 LF UTF-8 Tab\* master



The screenshot shows an IDE interface with the following details:

- Menu Bar:** File, Edit, View, Navigate, Code, Refactor, Build, Run, Tools, Git, Window, Help.
- Title Bar:** Java2021allfiles - Yonetici.java [Java2021allfiles]
- Toolbar:** SubClass, Git, various icons for build, run, and navigation.
- Project Explorer:** Shows a tree view of Java packages and files. The current file, Yonetici.java, is selected. Other files like Ana.java, AnaMain.java, A.java, B.java, Main.java, SuperClass.java, SubClass.java, Personel.java, SirketMain.java, and another Yonetici.java are also listed.
- Code Editor:** Displays the Java code for the Yonetici class. The code includes a static variable mudur, instance variables bagliPersonelSayisi and gorevTazminati, a zamYap method, and a multi-line comment explaining inheritance.
- Sidebar:** Project, Commit, Pull Requests, Bookmarks, Structure.
- Notifications:** A yellow bar at the bottom right indicates 37 notifications.
- Bottom Bar:** Git, Debug, TODO, Problems, Terminal, Services, Build.
- Status Bar:** All files are up-to-date (a minute ago), 24:1 LF, UTF-8 4 spaces, master.

File Edit View Navigate Code Refactor Build Run Tools Git Window Help Java2021allfiles - SirketMain.java [Java2021allfiles]

Java2021allfiles > src > JavaKonusalSorular > Pratik18\_Inheritance > Pr03 > SirketMain

Project Commit Pull Requests Bookmarks Structure

B.java Main.java SuperClass.java SubClass.java Personel.java SirketMain.java

SirketMain

Run: SirketMain

C:\Users\HP\.jdks\openjdk-18.0.2\bin\java.exe "-javaagent: %10 personelle zam yapildi.

Process finished with exit code 0

```
1 package JavaKonusalSorular.Pratik18_Inheritance.Pr03;
2
3 public class SirketMain extends Personel {
4     public static void main(String[] args) {
5
6         Yonetici mudur = new Yonetici();
7
8         // Personelin her fieldini kullanabiliyor
9         // erisim izni olunca
10        mudur.maas = 3000;
11        mudur.departman = "Destek Birimi";
12
13        // hem kendi hem de personelin metodlarini
14        // kullanabiliyor.
15        // Erisim izni olunca
16        mudur.getMaas();
17        mudur.zamYap( yuzde: 10);
18
19    }
20
21
22
23 }
```

Git Debug TODO Problems Terminal Services Build

All files are up-to-date (moments ago) 23:1 LF UTF-8 4 spaces master

File Edit View Navigate Code Refactor Build Run Tools Git Window Help Java2021allfiles - Animal.java [Java2021allfiles]

Java2021allfiles > src > JavaKonusalSorular > Pratik18\_Inheritance > Pr04 > Animal > Animal

Main.java A.java B.java Main.java SuperClass.java SubClass.java Personel.java SirketMain.java Animal.java Yonetici.java

Project Commit Pull Requests Bookmarks Structure

Notifications Run

```
1 package JavaKonusalSorular.Pratik18_Inheritance.Pr04;
2
3 /*
4 1) Animal isiminde classcreat edip 2 farklı methoda print komutu yazınız.
5 Animal class'ında int type'nda biri initialize(assingmet) edilmiş
6 digeri initialize(assingmet) edilmemiş iki farklı instance variable creat ediniz.
7 Animal class'ında int parametre'li ve parametre'siz iki cons creat ediniz.
8
9
10 2) Mammal isiminde classcreat edip 2 farklı methoda print komutu yazınız.
11 methodlardan biri parentindeki metod ile aynı isimde olsun
12 Mammal class'ında int type initialize(assingmet) edilmiş biri parentindeki variable aynı isimde
13 digeri farklı isimde iki farklı instance variable creat ediniz.
14 Mammal class'ında char parametre'li ve parametre'siz cons creat ediniz.
15 parametre'li cons parentindeki parametre'li cons call etsin.
16 parametre'siz cons kendi class'ındaki parametre'siz cons call etsin
17
18
19 3) Cat isiminde classcreat edip parentindeki ile aynı isimde methoda print komutu yazınız.
20 Cat class'ında int type initialize(assingmet) edilmiş biri parentindeki variable aynı isimde
21 digeri farklı isimde iki farklı instance variable creat ediniz.
22 Cat class'ında parametre'li ve parametre'siz cons creat ediniz.
23 String parametre'li cons classındaki parametre'siz cons call etsin
24 ve parentindeki aynı isimdeki variable print etsin
25
26
27 4) Runner class'i creat ederek class ve cons aynı veya
28 farklı objeler creat ederk variable ve metod call ile yazdırınız.
29
30 parent --> child
31 animal --> Mammal --> Cat
32 */
33 public class Animal {
34     public void mA() {
35         System.out.println("Animal");
```

File Edit View Navigate Code Refactor Build Run Tools Git Window Help Java2021allfiles - Animal.java [Java2021allfiles]

Java2021allfiles > src > JavaKonusalSorular > Pratik18\_Inheritance > Pr04 > Animal > Animal

Main.java A.java B.java Main.java SuperClass.java SubClass.java Personel.java SirketMain.java Animal.java Yonetici.java

Project Commit Pull Requests Bookmarks Structure

Notifications Run

```
Pratik13_DoWhileL 24 ve parentindeki aynı isimdeki variable print etsin
Pratik14_Arrays 25
Pratik15_ArrayList 26 4) Runner class'icreat ederek class ve cons aynı veya
Pratik16_Construct 27 farklı obj ler creat ederk variable ve metod call ile yazdırınız.
Pratik17_Encapsula 28
Pratik18_Inheritanc 29 parent --> child
Pr01 30 animal --> Mammal --> Cat
Pr02 31 */
Pr03 32 public class Animal {
Pr04 33     public void mA() {
Pr05 34         System.out.println("Animal");
Pr06 35     }
Pr07 36     public void mM() {
Pr08 37         System.out.println("Mammal " + " Animal");
Pr09 38     }
Pr10 39     public int a;
Pr11 40     public int m = 3;
Pr12 41     public Animal() {
Pr13 42         System.out.println("Parametresiz Animal");
Pr14 43     }
Pr15 44     public Animal(int i) {
Pr16 45         System.out.println("Parametreli Animal");
Pr17 46     }
Pr18 47 }
Pr19 48 }
Pr20 49 }
Pr21 50 }
Pr22 51 }
Pr23 52 }
Pr24 53 }
```

Git Debug TODO Problems Terminal Services Build

All files are up-to-date (a minute ago) 49:30 LF windows-1254 Tab\* master

File Edit View Navigate Code Refactor Build Run Tools Git Window Help Java2021allfiles - Mammal.java [Java2021allfiles]

Java2021allfiles > src > JavaKonusalSorular > Pratik18\_Inheritance > Pr04 > Mammal

Project Commit Pull Requests Bookmarks Structure

B.java X Main.java X SuperClass.java X SubClass.java X Personel.java X SirketMain.java X Animal.java X Cat.java X Mammal.java X Yonetici.java X

Notifications Run

```
1 package JavaKonusalSorular.Pratik18_Inheritance.Pr04;
2
3 public class Mammal extends Animal {
4
5     public void mM() { System.out.println("Mammal"); }
6
7     public void mC() { System.out.println("Mammal + Cat"); }
8
9
10    public int m = 1;
11    public int c = 4;
12
13    public Mammal() {
14        this(c);
15        System.out.println("Parametresiz Mammal");
16    }
17
18    public Mammal(char c) {
19        super(c);
20        System.out.println("Parametreli Mammal");
21    }
22
23
24
25 }
```

Git Debug TODO Problems Terminal Services Build

All files are up-to-date (a minute ago) 25:1 LF windows-1254 Tab\* master

File Edit View Navigate Code Refactor Build Run Tools Git Window Help Java2021allfiles - Cat.java [Java2021allfiles]

Java2021allfiles > src > JavaKonusalSorular > Pratik18\_Inheritance > Pr04 > Cat

B.java X Main.java X SuperClass.java X SubClass.java X Personel.java X SirketMain.java X Animal.java X Cat.java X Mammal.java X Yonetici.java X

Project Commit Pull Requests Bookmarks Structure

Notifications Run

```
1 package JavaKonusalSorular.Pratik18_Inheritance.Pr04;
2
3 public class Cat extends Mammal {
4     public void m0() { System.out.println("Cat"); }
5     public int c = 2;
6     public int d = 5;
7
8     public Cat() {
9         super();
10        System.out.println("Parametresiz Cat");
11    }
12    public Cat(String s) {
13        this();
14        /* super.c mammal daki c yi call eder
15           Parent Class'dan variable veya method secmek icin
16           super keyword'unu kullanabilirsiniz.
17           */
18        System.out.println(super.c);
19        System.out.println("Parametreli Cat");
20    }
21}
22
23}
```

Git Debug TODO Problems Terminal Services Build

All files are up-to-date (2 minutes ago) 3:14 LF windows-1254 Tab\* master

The screenshot shows an IDE interface with the following details:

- File Menu:** File, Edit, View, Navigate, Code, Refactor, Build, Run, Tools, Git, Window, Help.
- Title Bar:** Java2021allfiles - Runner.java [Java2021allfiles]
- Project Explorer:** Shows a project structure with multiple Pratik18\_Inheritance subfolders and files like SubClass.java, Personel.java, SirketMain.java, Animal.java, Cat.java, and Runner.java.
- Code Editor:** The Runner.java file is open, displaying code related to inheritance and polymorphism. It includes comments in Turkish explaining the use of super and this keywords, constructor chaining, and method overriding.
- Run Tab:** The Runner tab is selected, and the output window shows the execution results of the code.
- Output Window:** Displays the command used to run the code and the resulting console output.
- Bottom Navigation:** Git, Debug, TODO, Problems, Terminal, Services, Build.
- Status Bar:** All files are up-to-date (2 minutes ago), 31:13 LF UTF-8 Tab\*, master.

```
package JavaKonusalSorular.Pratik18_Inheritance.Pr04;
public class Runner {
    public static void main(String[] args) {
        Cat c1 = new Cat();
        /* Aynı isimli variable'lardan hangisinin kullanıldığını karar vermek için oluşturulan object'in data type'ına bakıniz.
        Variable'i araştırmaya data type'i classından başlayıniz. */
        System.out.println(c1.a); // 0
        System.out.println(c1.c); // 2 cat classındaki c parentindeki c istenirse super.c yapılmalı
        System.out.println(c1.d); // 5
        System.out.println(c1.m); // 1

        Mammal c2 = new Cat( s: "X"); // kod özel olsun istenirse obj için data type kendi cons.
        // classtan genel olsun istenirse parent classtancreat edilmeli.babminoglu -ademoglu
        System.out.println(c2.c); // 4 mammal classındaki c
        System.out.println(c2.a); // 0
        System.out.println(c2.m); // 1 mammal classındaki m
        //System.out.println(c2.d); --> mammal classındaki d yok

        Cat c3 = new Cat();
        /* Method çağırılırken aynı isimli methodlardan hangisinin kullanılacağına Constructor karar verir.
        Methodları araştırmaya Constructor ismini taşıyan class'dan başlayın ve parentlarda araştırmaya devam edin.*/
        c3.mA(); //Animal class
        c3.mC(); //Cat class
        c3.mM(); //mammal class

        Mammal c4 = new Mammal();
        c4.mA();
        c4.mC();
        c4.mM();

        /* Data Type ve Constructor farklı classlardan ise method araştırımıya parent olan class'dan başlayın. */
        Mammal c5 = new Cat();
        c5.mA();
        c5.mC();
```

| Line Number | Output                                                        |
|-------------|---------------------------------------------------------------|
| 1           | C:\Users\HP\.jdks\openjdk-18.0.2\bin\java.exe "-javaagent:... |
| 2           | Parametreli Animal                                            |
| 3           | Parametreli Mammal                                            |
| 4           | Parametresiz Mammal                                           |
| 5           | Parametresiz Cat                                              |
| 6           | 0                                                             |
| 7           | 2                                                             |
| 8           | 5                                                             |
| 9           | 1                                                             |
| 10          | Parametreli Animal                                            |
| 11          | Parametreli Mammal                                            |
| 12          | Parametresiz Mammal                                           |
| 13          | Parametresiz Cat                                              |
| 14          | 4                                                             |
| 15          | Parametreli Cat                                               |
| 16          | 4                                                             |
| 17          | 0                                                             |
| 18          | 1                                                             |
| 19          | Parametreli Animal                                            |
| 20          | Parametreli Mammal                                            |
| 21          | Parametresiz Mammal                                           |
| 22          | Parametresiz Cat                                              |
| 23          | Animal                                                        |
| 24          | Cat                                                           |
| 25          | Mammal                                                        |
| 26          | Parametreli Animal                                            |
| 27          | Parametreli Mammal                                            |
| 28          | Parametresiz Mammal                                           |
| 29          | Animal                                                        |
| 30          | Mammal + Cat                                                  |
| 31          | Mammal                                                        |
| 32          | Parametreli Animal                                            |
| 33          | Parametreli Mammal                                            |
| 34          | Parametresiz Mammal                                           |
| 35          | Parametresiz Cat                                              |

File Edit View Navigate Code Refactor Build Run Tools Git Window Help Java2021allfiles - Runner.java [Java2021allfiles]

Java2021allfiles > src > JavaKonusalSorular > Pratik18\_Inheritance > Pr04 > Runner > main

SubClass.java Personel.java SirketMain.java Animal.java Cat.java Runner.java Mammal.java

Project Commit Pull Requests Bookmarks Structure

System.out.println(c1.c); // 2 tür classından parent class'tan istenilen su Super class'ından mutlak  
System.out.println(c1.d); // 5  
System.out.println(c1.m); // 1

Mammal c2 = new Cat( s: "X"); // kod özel olsun istenirse obj için data type kendi cons.  
// classtan genel olsun istenirse parent classtan creat edilmeli.babminoglu -ademoglu  
System.out.println(c2.c); // 4 mammal class'taki c  
System.out.println(c2.a); // 0  
System.out.println(c2.m); // 1 mammal class'daki m  
//System.out.println(c2.d); --> mammal class'daki d yok

Cat c3 = new Cat();  
/\* Method çağırılırken aynı isimli methodlardan hangisinin kullanıldığını Constructor karar verir.  
Methodları araştırımıya Constructor ismini taşıyan class'dan başlayın ve parentlarda araştırımıya devam edin.\*/  
c3.mA(); //Animal class  
c3.mC(); //Cat class  
c3.mM(); //mammal class

Mammal c4 = new Mammal();  
c4.mA();  
c4.mC();  
c4.mM();

/\* Data Type ve Constructor farklı classlardan ise method araştırımıya parent olan class'dan başlayın. \*/  
Mammal c5 = new Cat();  
c5.mA();  
c5.mC();  
c5.mM();

}

Runner

Run: Runner

Notifications Run

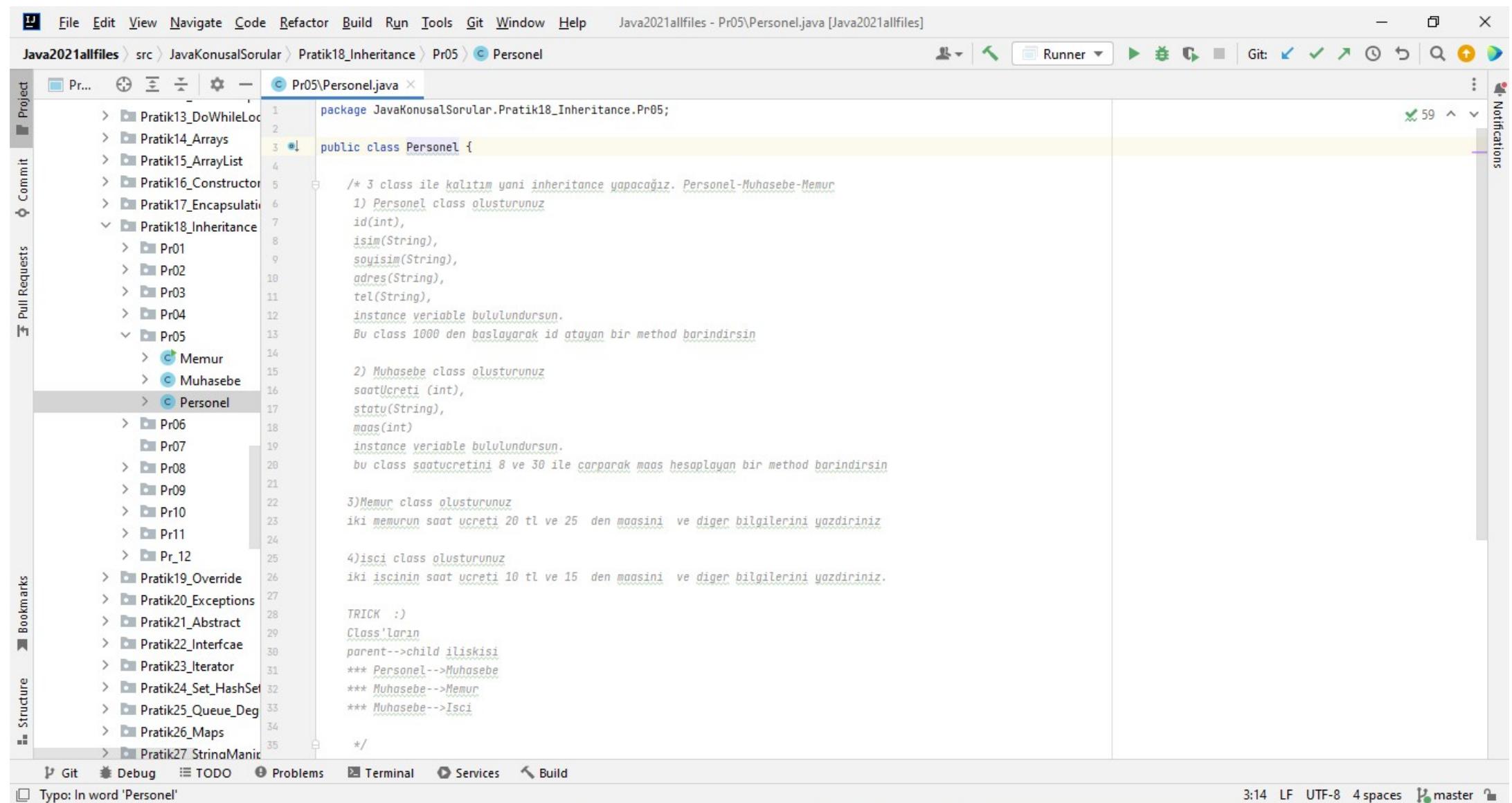
2  
5  
1  
Parametreli Animal  
Parametreli Mammal  
Parametresiz Mammal  
Parametresiz Cat  
4  
Parametreli Cat  
4  
0  
1  
Parametreli Animal  
Parametreli Mammal  
Parametresiz Mammal  
Parametresiz Cat  
Animal  
Cat  
Mammal  
Parametreli Animal  
Parametreli Mammal  
Parametresiz Mammal  
Animal  
Mammal + Cat  
Mammal  
Parametreli Animal  
Parametreli Mammal  
Parametresiz Mammal  
Parametresiz Cat  
Animal  
Cat  
Mammal

Process finished with exit code 0

Git Debug TODO Problems Terminal Services Build

All files are up-to-date (2 minutes ago)

31:13 LF UTF-8 Tab\* master



File Edit View Navigate Code Refactor Build Run Tools Git Window Help Java2021allfiles - Pr05\Personel.java [Java2021allfiles]

Java2021allfiles > src > JavaKonusalSorular > Pratik18\_Inheritance > Pr05 > Personel

Project Commit Pull Requests Bookmarks Structure

Pr... Pr01 Pr02 Pr03 Pr04 Pr05 Memur Muhasebe Personnel

Pratik13\_DoWhileLoc Pratik14\_Arrays Pratik15\_ArrayList Pratik16\_Constructor Pratik17\_Encapsulation Pratik18\_Inheritance Pr01 Pr02 Pr03 Pr04 Pr05 Memur Muhasebe Personnel Pr06 Pr07 Pr08 Pr09 Pr10 Pr11 Pr\_12 Pratik19\_Override Pratik20\_Exceptions Pratik21\_Abstract Pratik22\_Interfceae Pratik23\_Iterator Pratik24\_Set\_HashSet Pratik25\_Queue\_Deg Pratik26\_Maps Pratik27\_StringManic

Pr05\Personel.java

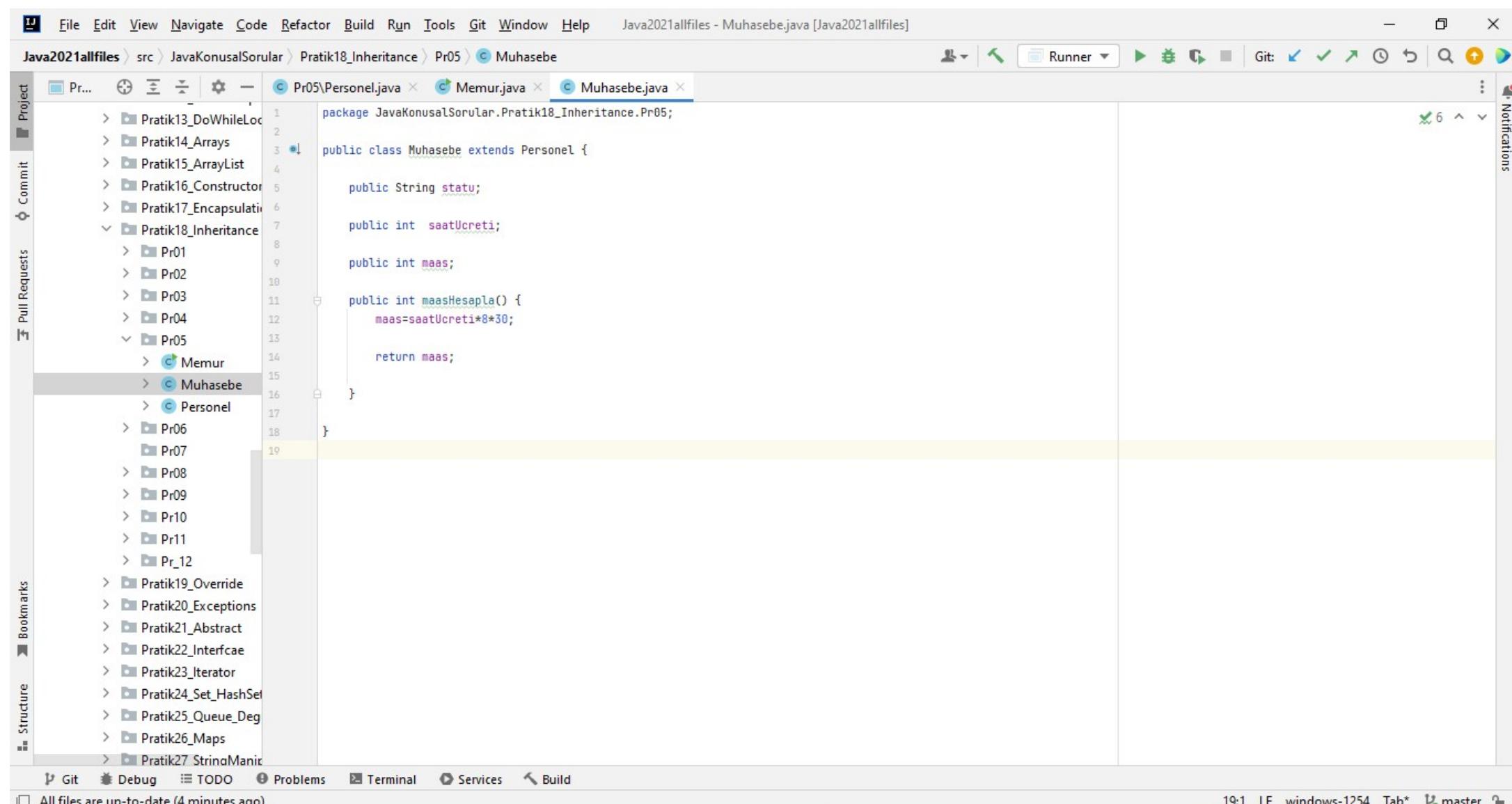
```
bu class saatucretini 8 ve 30 ile carparak maas hesaplayan bir method barindirsin
3)Memur class olusturunuz
iki memurun saat ucreti 20 tl ve 25 den maasini ve diger bilgilerini yazdiriniz
4)isci class olusturunuz
iki icsinin saat ucreti 10 tl ve 15 den maasini ve diger bilgilerini yazdiriniz.

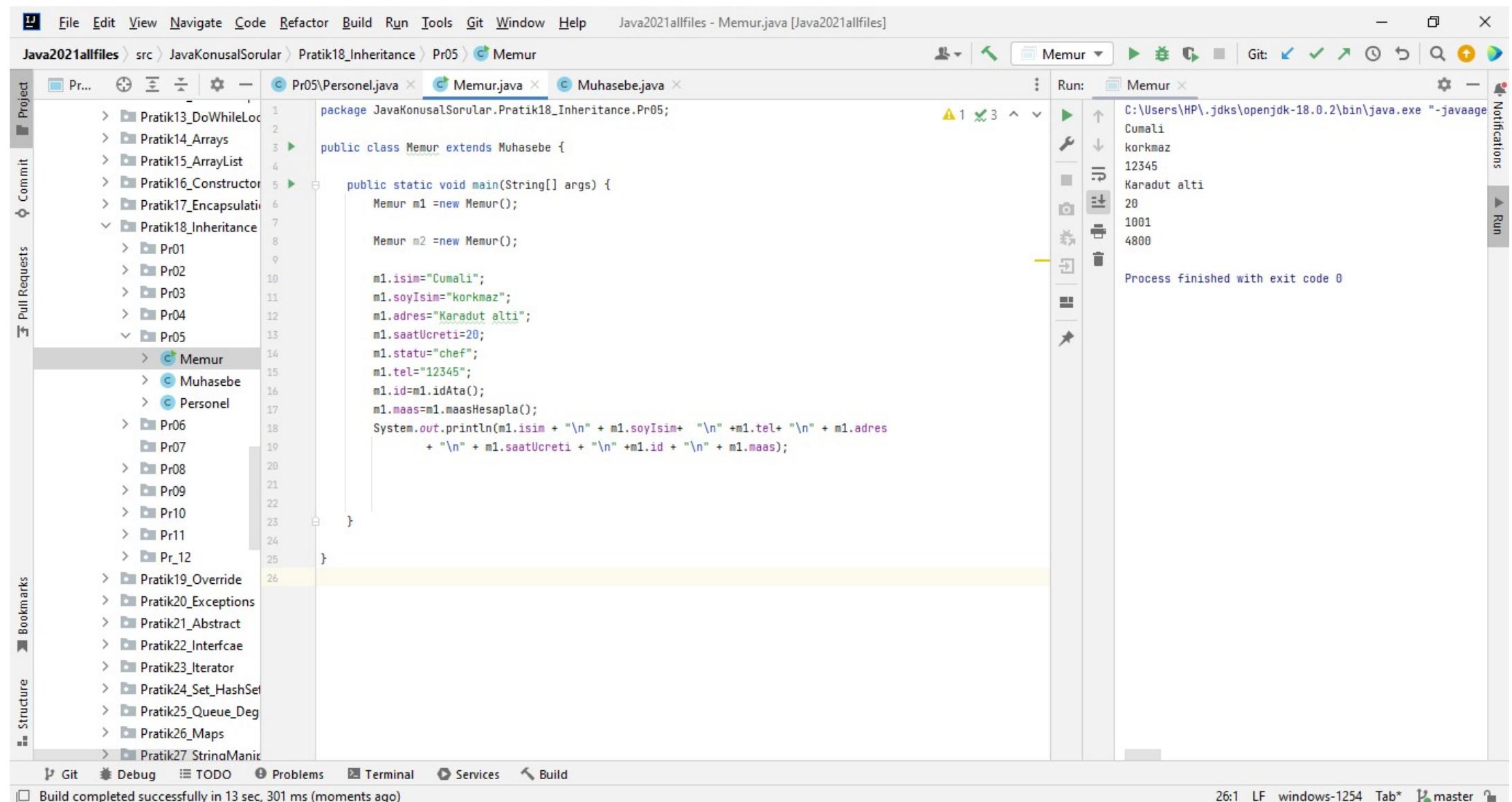
TRICK :)
Class'larin
parent-->child iliskisi
*** Personel-->Muhasebe
*** Muhasebe-->Memur
*** Muhasebe-->Iscli

*/
public static int sayac=1000;
public int id;
public String isim;
public String soyisim;
public String adres;
public String tel;

public int idAta() {
this.id=++sayac;
return id;
}
```

Runner Git: 3:14 LF UTF-8 4 spaces master





File Edit View Navigate Code Refactor Build Run Tools Git Window Help Java2021allfiles - Pr06\Personel.java [Java2021allfiles]

Java2021allfiles > src > JavaKonusalSorular > Pratik18\_Inheritance > Pr06 > Personel

Project Commit Pull Requests Bookmarks Structure

Pr... + - Project.java Memur.java Pr06\Personel.java Muhasebe.java

Pratik13\_DoWhileLoc Pratik14\_Arrays Pratik15\_ArrayList Pratik16\_Constructor Pratik17\_Encapsulation Pratik18\_Inheritance Pr01 Pr02 Pr03 Pr04 Pr05 Pr06 Isci Personel UstaBasi Pr07 Pr08 Pr09 Pr10 Pr11 Pratik19\_Override Pratik20\_Exceptions Pratik21\_Abstract Pratik22\_Interfcae Pratik23\_Iterator Pratik24\_Set\_HashSet Pratik25\_Queue\_Deg Pratik26\_Maps Pratik27\_StringManip Pratik28\_StringBuilder

package JavaKonusalSorular.Pratik18\_Inheritance.Pr06;

public class Personel {

// personel--ustabasi--isci sonrasiyla diger class lar ile baslayabiliriz...

public String isim="Mehmet";  
public int id = 1001;  
public boolean izindeMi;

12

Git Debug TODO Problems Terminal Services Build

Build completed successfully in 13 sec, 301 ms (a minute ago) 12:1 CRLF UTF-8 Tab\* master

The screenshot shows an IDE interface with the following details:

- Menu Bar:** File, Edit, View, Navigate, Code, Refactor, Build, Run, Tools, Git, Window, Help.
- Title Bar:** Java2021allfiles - Iisci.java [Java2021allfiles]
- Toolbar:** Includes icons for user, Memur dropdown, navigation, and Git status.
- Project Explorer:** Shows a tree view of the project structure under "Java2021allfiles/src". The "Pratik18\_Inheritance/Pr06" folder is expanded, showing files like Pr05\Personel.java, Memur.java, Pr06\Personel.java, Iisci.java (which is selected), and Muhasebe.java.
- Code Editor:** Displays the content of the Iisci.java file:

```
package JavaKonusalSorular.Pratik18_Inheritance.Pr06;
public class Iisci extends Personel {
    public int saatUcreti = 10 ;
    public String departman = "Imalathane";
    public boolean raporluMu = false;
}
```
- Status Bar:** Shows "Typo: In word 'Iisci'" and system information: 3:14 CRLF windows-1254 Tab\* master.

The screenshot shows an IDE interface with the following details:

- File Menu:** File, Edit, View, Navigate, Code, Refactor, Build, Run, Tools, Git, Window, Help.
- Title Bar:** Java2021allfiles - UstaBasi.java [Java2021allfiles]
- Project Tree:** Shows a project structure with various practice files (Pr01 to Pr28) and specific chapters like Pratik18\_Inheritance.
- Code Editor:** The active file is `UstaBasi.java`, which contains Java code demonstrating inheritance. It includes imports for `Personel`, `Memur`, and `Iisci`. The code creates objects of `UstaBasi` and `Iisci` classes and prints their properties.
- Output Console:** The right side shows the terminal output of the run command, displaying the printed values: takimhane, 20, 10, Mehmet, Imalathane, false, 1001, and Mehmet. It also shows the message "Process finished with exit code 0".
- Bottom Navigation:** Git, Debug, TODO, Problems, Terminal, Services, Build.
- Bottom Status:** Build completed successfully in 17 sec, 180 ms (moments ago).

File Edit View Navigate Code Refactor Build Run Tools Git Window Help Java2021allfiles - Aa\_Soru [Java2021allfiles]

Java2021allfiles > src > JavaKonusalSorular > Pratik18\_Inheritance > Pr07 > Aa\_Soru

Project Commit Pull Requests Bookmarks Structure

java x Memur.java x Pr06\_Personel.java x lisci.java x UstaBasici.java x Pr01\_Calisan.java x Pr02\_Yonetici.java x Pr03\_Runner.java x Aa\_Soru x

Notifications

/\* Soru

3 sınıf oluşturacagiz bu ornegimizde: Runner ,calisan ve yonetici siniflari.  
Calisan sinifimiz superclass, yonetici sinifimiz da subclass olacak.  
Runner sinifimizda da olusturdugumuz kodlari, konsola yazdirabilmek icin olusturacagiz

Calisan sinifinda isim ,maas ve departman degiskenleri olsun.  
Parametresi bu degiskenler olan bir constructor olusturalim.  
Birde bu degiskenleri goruntuleyecek bir BilgileriGoster methodu olusturalim.

Yoneticisinifinda yine parametresi SperClasstaki degiskenler olan bir constructor olusturalim.  
Birde parametresi int zam olan br method olusturalim.  
Bu method bize zam miktarı belirtildiginde ne kadar zam yapilmasi gerektigini belirtsin.

/\*

Pr01\_Calisan  
Pr02\_Yonetici  
Pr03\_Runner

Pr08  
Pr09  
Pr10  
Pr11  
Pratik19\_Override  
Pratik20\_Exceptions  
Pratik21\_Abstract  
Pratik22\_Interface  
Pratik23\_Iterator  
Pratik24\_Set\_HashSet\_Link  
Pratik25\_Queue\_Degue  
Pratik26\_Maps  
Pratik27\_StringManipulati

Git Debug TODO Problems Terminal Services Build

Build completed successfully in 20 sec, 68 ms (2 minutes ago)

16:1 CRLF windows-1254 4 spaces master

File Edit View Navigate Code Refactor Build Run Tools Git Window Help Java2021allfiles - Pr01\_Calisan.java [Java2021allfiles]

Java2021allfiles > src > JavaKonusalSorular > Pratik18\_Inheritance > Pr07 > Pr01\_Calisan

UstaBasi

Pr... + - Pr05\Personel.java × Memur.java × Pr06\Personel.java × Isci.java × UstaBasi.java × Pr01\_Calisan.java × Muhasebe.java ×

Project Commit Pull Requests Bookmarks Structure

Notifications Run

```
1 package JavaKonusalSorular.Pratik18_Inheritance.Pr07;
2
3 public class Pr01_Calisan {
4
5     String isim;
6     int maas;
7     String departman;
8
9     public Pr01_Calisan() {
10
11 }
12
13     public Pr01_Calisan(String isim, int maas, String departman) {
14
15         this.isim = isim;
16         this.maas = maas;
17         this.departman = departman;
18     }
19
20 }
21
22
23
24 }
25
```

Aa\_Soru

Pr01\_Calisan

Pr02\_Yonetici

Pr03\_Runner

Pr08

Pr09

Pr10

Pr11

Pratik19\_Override

Pratik20\_Exceptions

Pratik21\_Abstract

Pratik22\_Interfceae

Pratik23\_Iterator

Pratik24\_Set\_HashSet

Pratik25\_Queue\_Deg

Pratik26\_Maps

Pratik27\_StringManic

Git Debug TODO Problems Terminal Services Build

Build completed successfully in 17 sec, 180 ms (moments ago)

25:1 CRLF windows-1254 Tab\* master

File Edit View Navigate Code Refactor Build Run Tools Git Window Help Java2021allfiles - Pr02\_Yonetici.java [Java2021allfiles]

Java2021allfiles > src > JavaKonusalSorular > Pratik18\_Inheritance > Pr07 > Pr02\_Yonetici

UstaBasi

Pr... + - Pr05\Personel.java × Memur.java × Pr06\Personel.java × Isci.java × UstaBasi.java × Pr01\_Calisan.java × Pr02\_Yonetici.java × Muhasebe.java ×

Project Commit Pull Requests Bookmarks Structure Notifications Run

```
1 package JavaKonusalSorular.Pratik18_Inheritance.Pr07;
2
3 public class Pr02_Yonetici extends Pr01_Calisan {
4     public Pr02_Yonetici(String isim, int maas, String departman) {
5         super(isim, maas, departman);
6     }
7
8     public Pr02_Yonetici() {
9
10    }
11
12     @Override
13     public String toString() {
14         return "isim=" + isim + "\nmaas= $" + maas + "\ndepartman=" + departman;
15     }
16
17     public void zam(int zamOrani) {
18
19         System.out.println("Zam sonrası calisan maasi : $" + (maas+zamOrani));
20     }
21
22 }
23
24 }
```

Git Debug TODO Problems Terminal Services Build

Build completed successfully in 17 sec, 180 ms (moments ago)

25:1 CRLF windows-1254 Tab\* master

File Edit View Navigate Code Refactor Build Run Tools Git Window Help Java2021allfiles - Pr03\_Runner.java [Java2021allfiles]

Java2021allfiles > src > JavaKonusalSorular > Pratik18\_Inheritance > Pr07 > Pr03\_Runner > main

Project Commit Pull Requests Bookmarks Structure

Run: Pr03\_Runner

```
1 package JavaKonusalSorular.Pratik18_Inheritance.Pr07;
2 import java.util.Scanner;
3 public class Pr03_Runner {
4
5     public static void main(String[] args) {
6
7         Scanner scan = new Scanner(System.in);
8
9         Pr02_Yonetici y = new Pr02_Yonetici();
10        System.out.println("Lutfen calisanin adini giriniz : ");
11        y.isim = scan.nextLine();
12        System.out.println("Lutfen calisanin departmanini giriniz : ");
13        y.departman = scan.nextLine();
14        System.out.println("Lutfen calisanin maasini giriniz : ");
15        y.maas = scan.nextInt();
16
17        System.out.println(y);
18
19        System.out.println("Bu calisanin maasina zam yapmak istiyor musunuz? Evet icin 'E' hayir icin 'H'");
20        char zam= scan.next().toUpperCase().charAt(0);
21
22
23
24        if (zam=='E') {
25            System.out.println("Lutfen ne kadar zaman yapmak istediginizi giriniz");
26            y.zam(scan.nextInt());
27
28        }else {
29            System.out.println("Sirketimize hos geldiniz");
30        }
31        scan.close();
32
33    }
34 }
```

C:\Users\HP\.jdks\openjdk-18.0.2\bin\java.exe "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA 2021.3.1\lib\idea\_rt.jar" -Dfile.encoding=UTF-8 -jar "C:\Users\HP\IdeaProjects\Java2021allfiles\out\artifacts\Pr03\_Runner.jar" "C:\Users\HP\IdeaProjects\Java2021allfiles\src\JavaKonusalSorular\Pratik18\_Inheritance\Pr07\Pr03\_Runner" "main"

Lutfen calisanin adini giriniz :  
Mehmet  
Lutfen calisanin departmanini giriniz :  
Developer  
Lutfen calisanin maasini giriniz :  
350000  
isim=Mehmet  
maas= \$350000  
departman=Developer  
Bu calisanin maasina zam yapmak istiyor musunuz? Evet icin 'E' hayir icin 'H'  
e  
Lutfen ne kadar zaman yapmak istediginizi giriniz  
25000  
Zam sonrasi calisan maasi : \$375000

Process finished with exit code 0

Git Debug TODO Problems Terminal Services Build

Build completed successfully in 20 sec, 68 ms (a minute ago)

18:1 CRLF windows-1254 Tab\* master

File Edit View Navigate Code Refactor Build Run Tools Git Window Help Java2021allfiles - A.java [Java2021allfiles]

Java2021allfiles > src > JavaKonusalSorular > Pratik18\_Inheritance > Pr08 > A

Project Commit Pull Requests Bookmarks Structure

Project Personel.java Isci.java UstaBasi.java Pr01\_Calisan.java Pr02\_Yonetici.java Pr03\_Runner.java Aa\_Soru A.java Muhasebe.java

Notifications

```
1 package JavaKonusalSorular.Pratik18_Inheritance.Pr08;
2
3 public class A {
4
5     /*
6      * A ve B isminde iki class olusturalim
7      * A parent, B child iliskisi kuralim
8      * B de parametresiz bir constructor create edelim
9      * ve bu constructor icinden A daki
10     * variable cagirarak assignment yapiniz. Bir runner class create edip her iki
11     * class tan obje ureterek variable lari print ediniz
12     */
13
14
15     String mesaj ="A classindasiniz";
16
17 }
18
```

A B Runner

Git Debug TODO Problems Terminal Services Build

Build completed successfully in 20 sec, 68 ms (3 minutes ago) 18:1 CRLF windows-1254 Tab\* master

File Edit View Navigate Code Refactor Build Run Tools Git Window Help Java2021allfiles - B.java [Java2021allfiles]

Java2021allfiles > src > JavaKonusalSorular > Pratik18\_Inheritance > Pr08 > B

Project Commit Pull Requests Bookmarks Structure

Project Personel.java Isci.java UstaBasi.java Pr01\_Calisan.java Pr02\_Yonetici.java Pr03\_Runner.java Aa\_Soru A.java B.java Notifications

```
1 package JavaKonusalSorular.Pratik18_Inheritance.Pr08;
2
3 public class B extends A {
4
5     public B() {
6         mesaj = "B classindasiniz";
7     }
8
9 }
10
11 }
```

Git Debug TODO Problems Terminal Services Build

Build completed successfully in 20 sec, 68 ms (3 minutes ago) 3:14 CRLF windows-1254 Tab\* master

File Edit View Navigate Code Refactor Build Run Tools Git Window Help Java2021allfiles - Runner.java [Java2021allfiles]

Java2021allfiles > src > JavaKonusalSorular > Pratik18\_Inheritance > Pr08 > Runner

Project Commit Pull Requests Bookmarks Structure

Project Aa\_Soru A.java B.java Runner.java

Run: JavaKonusalSorular.Pratik18\_Inheritance.Pr08.Runner

Notifications Run

Pr03\_Runner.java Aa\_Soru A.java B.java Runner.java

1 package JavaKonusalSorular.Pratik18\_Inheritance.Pr08;

2

3 public class Runner {

4

5 public static void main(String[] args) {

6

7 A obj1= new A();

8 System.out.println(obj1.mesaj);

9

10 B obj2= new B();

11 System.out.println(obj2.mesaj);

12 }

13}

14

15}

16}

C:\Users\HP\.jdks\openjdk-18.0.2\bin\java.exe "-javaagent:C:\Program Files\JetB A classindasınız  
B classindasınız

Process finished with exit code 0

Project Structure

Git Debug TODO Problems Terminal Services Build

Build completed successfully in 23 sec, 80 ms (a minute ago)

16:1 CRLF windows-1254 Tab\* master

File Edit View Navigate Code Refactor Build Run Tools Git Window Help Java2021allfiles - Pr01\_Super.java [Java2021allfiles]

Java2021allfiles > src > JavaKonusalSorular > Pratik18\_Inheritance > Pr09 > Pr01\_Super

Project Commit Pull Requests Bookmarks Structure

Project

UstaBasi.java Pr01\_Calisan.java Pr02\_Yonetici.java Pr03\_Runner.java Aa\_Soru A.java B.java Runner.java Pr01\_Super.java

Notifications Run

```
1 package JavaKonusalSorular.Pratik18_Inheritance.Pr09;
2
3 public class Pr01_Super {
4
5     /*
6      * Super class isminde bir method olusturalim
7      * icerine num=20 degerini olusturalim
8      * Goster isminde bir method "superclass i goruntulkuyorsunuz" print etsin...
9      *
10     * Subclass olusturalim
11     * ve superclastan miras alalim SubClassta num=10 olsun
12     * goster metodu "subClass i goruntulkuyorsunuz desin"
13     *
14     * Runner classta
15     * My_method isminde bit method olusturalim. icerigine SubClasstaki goster ve
16     * SuperClass taki goster metodunu cagiralam aynı zamanda num degerini hem
17     * subBClasstan hem SuperClass tan yazdirin
18     */
19
20     int num=20;
21
22     public void goster() {
23         System.out.println("superclass i goruntulkuyorsunuz");
24     }
25
26 }
27
28 }
```

Git Debug TODO Problems Terminal Services Build

Build completed successfully in 23 sec, 80 ms (a minute ago) 29:1 CRLF windows-1254 Tab\* master

File Edit View Navigate Code Refactor Build Run Tools Git Window Help Java2021allfiles - Pr02\_Sub.java [Java2021allfiles]

Java2021allfiles > src > JavaKonusalSorular > Pratik18\_Inheritance > Pr09 > Pr02\_Sub

Project Commit Pull Requests Bookmarks Structure

Project

Pr01\_Calisan.java < Pr02\_Yonetici.java < Pr03\_Runner.java < Aa\_Soru < A.java < B.java < Runner.java < Pr01\_Super.java < Pr02\_Sub.java

Notifications Run

```
1 package JavaKonusalSorular.Pratik18_Inheritance.Pr09;
2
3 public class Pr02_Sub extends Pr01_Super {
4
5     int num = 10;
6
7     public void goster() {
8         System.out.println("subClassi goruntuluyorsunuz");
9     }
10
11 }
12
```

Pr01\_Super  
Pr02\_Sub  
Pr03\_Runner  
Pr10  
Pr11  
Pratik19\_Override  
Pratik20\_Exceptions  
Pratik21\_Abstract  
Pratik22\_Interfcae  
Pratik23\_Iterator  
Pratik24\_Set\_HashSet\_Link  
Pratik25\_Queue\_Degue  
Pratik26\_Maps  
Pratik27\_StringManipulati  
Pratik28\_StringBuilder

Git Debug TODO Problems Terminal Services Build

Build completed successfully in 23 sec, 80 ms (a minute ago) 12:1 CRLF windows-1254 Tab\* master

File Edit View Navigate Code Refactor Build Run Tools Git Window Help Java2021allfiles - Pr09\Pr03\_Runner.java [Java2021allfiles]

Java2021allfiles > src > JavaKonusalSorular > Pratik18\_Inheritance > Pr09 > Pr03\_Runner

Project Commit Pull Requests Bookmarks Structure

JavaKonusalSorular.Pratik18\_Inheritance.Pr08.Runner

Pr03\_Runner.java

Project Aa\_Soru A.java B.java Runner.java Pr01\_Super.java Pr02\_Sub.java Pr09\Pr03\_Runner.java

Notifications Run

```
1 package JavaKonusalSorular.Pratik18_Inheritance.Pr09;
2
3 public class Pr03_Runner {
4
5     public static void main(String[] args) {
6
7         myMethod();
8     }
9
10    public static void myMethod() {
11
12        Pr02_Sub obj1 = new Pr02_Sub();
13        obj1.goster();
14        System.out.println("sub degisken degeri : " + obj1.num);
15
16        Pr01_Super obj2 =new Pr01_Super();
17        obj2.goster();
18        System.out.println("super degisken degeri : " + obj2.num);
19
20    }
21
22
23
24 }
```

Git Debug TODO Problems Terminal Services Build

Build completed successfully in 23 sec, 80 ms (2 minutes ago)

24:1 CRLF windows-1254 Tab\* master

The screenshot shows an IDE interface with the following details:

- Menu Bar:** File, Edit, View, Navigate, Code, Refactor, Build, Run, Tools, Git, Window, Help.
- Title Bar:** Java2021allfiles - Pr10\Aa\_Soru [Java2021allfiles]
- Toolbar:** Includes icons for Project, Build, Run, Git, and other development tools.
- Project Explorer:** Shows a tree view of the project structure under "Project".
  - Pratik13\_DoWhileLoop
  - Pratik14\_Arrays
  - Pratik15\_ArrayList
  - Pratik16\_Constructors
  - Pratik17\_Encapsulation
  - Pratik18\_Inheritance
    - Pr01
    - Pr02
    - Pr03
    - Pr04
    - Pr05
    - Pr06
    - Pr07
    - Pr08
    - Pr09
    - Pr10
      - Aa\_Soru
      - Pr01\_Hayvan
      - Pr02\_1\_Kus
      - Pr02\_2\_Guvercin
      - Pr03\_1\_Balik
      - Pr03\_2\_JaponBaligi
      - Pr04\_Runner
    - Pr11
  - Pratik19\_Override
  - Pratik20\_Exceptions
  - Pratik21\_Abstract
  - Pratik22\_Interface
  - Pratik23\_Iterator
  - Pratik24\_Set HashSet Link
- Code Editor:** Displays the content of the file "Aa\_Soru.java".

```
/* Soru
 * -Hayvanlarn beslenme,barinma, boyut ve solunum ozellikleri ile ilgili
 * methodlar barindiran Hayvan isminde bir class olusturalim
 *
 * -Hayvan sinifinin SubClassi bir Kus Classi olusturalim ve bu class ucma ve
 * barinma methodlarini icersin
 *
 * -Hayvan sinifinin SubClassi bir Balik Classi olusturalim ve bu class yuzme ve
 * Solunum methodlarini icersin
 *
 * -kus sinifinin SubClassi bir Guversin Classi olusturalim ve bu class beslenme
 * ve boyut methodlarini icersin
 *
 * -Balik sinifinin SubClassi bir JaponBaligi Classi olusturalim ve bu class
 * solunum methodu icersin ve bu methodu Superclastan alsin
 *
 * --Runner class olusturalim ve olusturdugumuz metholari cagiralim.
 */
```
- Side Panels:** Notifications, Run, Pull Requests, Bookmarks.
- Bottom Bar:** Git, Debug, TODO, Problems, Terminal, Services, Build.
- Status Bar:** Build completed successfully in 23 sec, 80 ms (2 minutes ago), 1:1 CRLF windows-1254 4 spaces, master.

File Edit View Navigate Code Refactor Build Run Tools Git Window Help Java2021allfiles - Pr01\_Hayvan.java [Java2021allfiles]

Java2021allfiles > src > JavaKonusalSorular > Pratik18\_Inheritance > Pr10 > Pr01\_Hayvan > solunum

Project Aa\_Soru A.java B.java Runner.java Pr01\_Super.java Pr02\_Sub.java Pr09\Pr03\_Runner.java Pr10\Aa\_Soru Pr01\_Hayvan.java

Project Commit Pull Requests Bookmarks Structure

Notifications Run

```
1 package JavaKonusalSorular.Pratik18_Inheritance.Pr10;
2
3 public class Pr01_Hayvan {
4
5     public void beslenme() {
6         System.out.println("hayatin merkezinde rizik vardir");
7     }
8
9     public void barinma() {
10        System.out.println("riziktan sonra barinma vardir");
11    }
12
13    public void boyut() {
14        System.out.println("her hayvanin boyutu farklidir");
15    }
16
17    public void solunum() {
18        System.out.println("solunum cesitleri farkli farklidir");
19    }
20
21 }
22 }
```

Git Debug TODO Problems Terminal Services Build

Build completed successfully in 23 sec, 80 ms (2 minutes ago) 17:26 CRLF windows-1254 Tab\* master

File Edit View Navigate Code Refactor Build Run Tools Git Window Help Java2021allfiles - Pr02\_1\_Kus.java [Java2021allfiles]

Java2021allfiles > src > JavaKonusalSorular > Pratik18\_Inheritance > Pr10 > Pr02\_1\_Kus > barinma

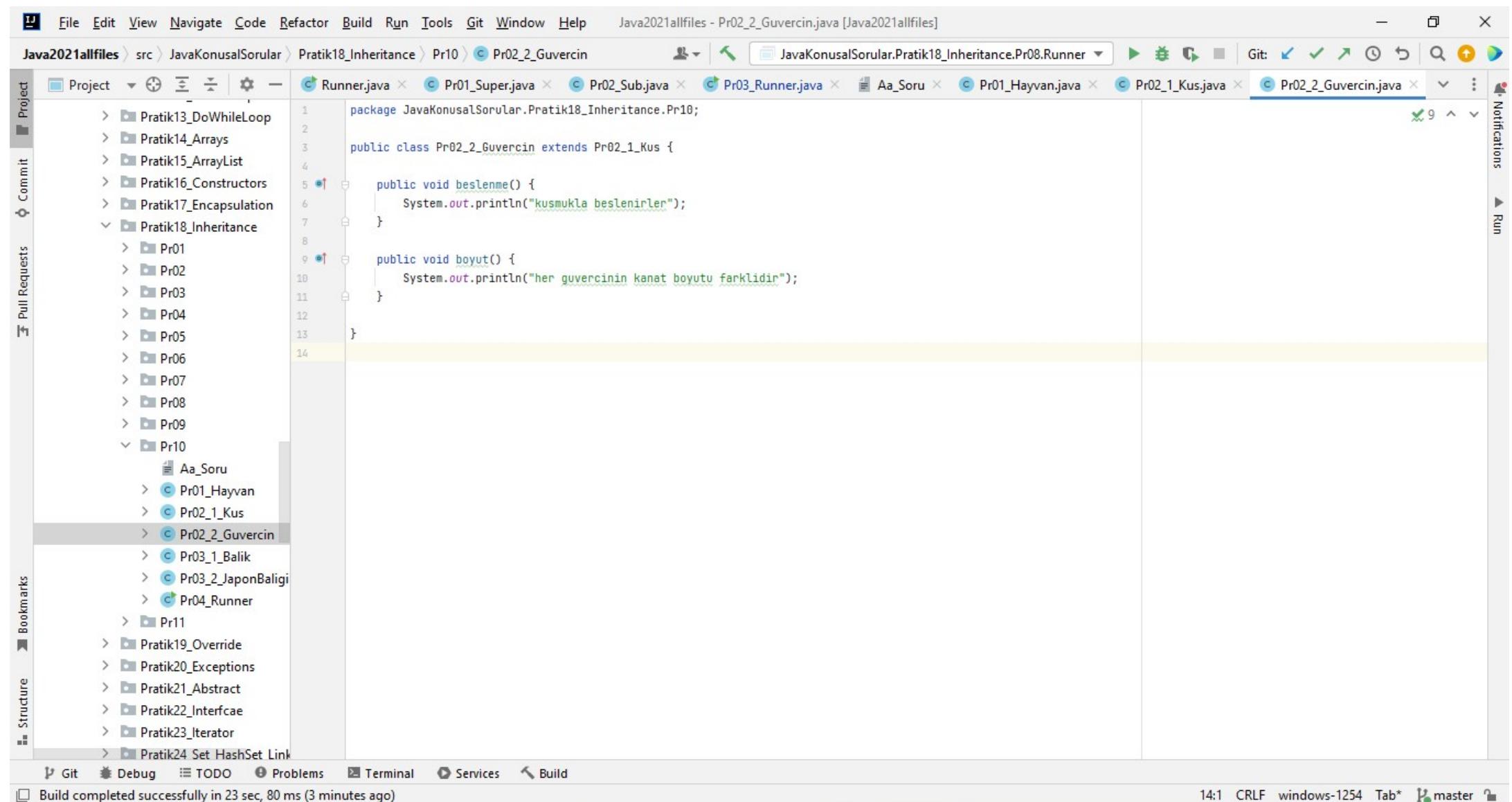
Project Commit Pull Requests Bookmarks Structure

Notifications Run

```
1 package JavaKonusalSorular.Pratik18_Inheritance.Pr10;
2
3 public class Pr02_1_Kus extends Pr01_Hayvan {
4
5     public void ucma() {
6         System.out.println("kuslar uclarlar");
7     }
8
9     public void barinma() {
10        System.out.println("her kusun yuvasi vardin");
11    }
12
13 }
14
```

Git Debug TODO Problems Terminal Services Build

Build completed successfully in 23 sec, 80 ms (2 minutes ago) 9:26 CRLF windows-1254 Tab\* master



File Edit View Navigate Code Refactor Build Run Tools Git Window Help Java2021allfiles - Pr03\_1\_Balik.java [Java2021allfiles]

Java2021allfiles > src > JavaKonusalSorular > Pratik18\_Inheritance > Pr10 > Pr03\_1\_Balik

Project Commit Pull Requests Bookmarks Structure

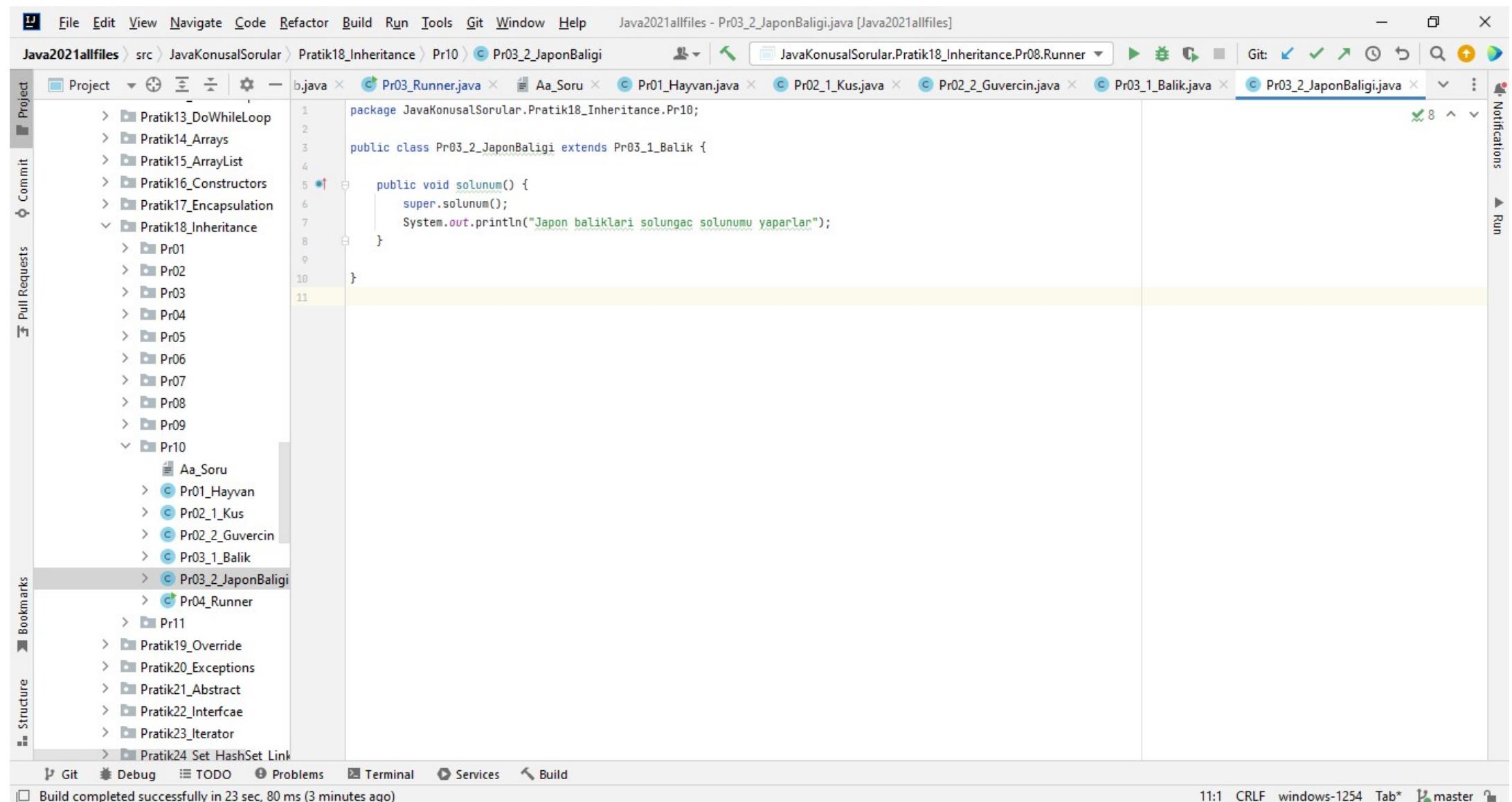
Project

```
1 package JavaKonusalSorular.Pratik18_Inheritance.Pr10;
2
3 public class Pr03_1_Balik extends Pr01_Hayvan {
4
5     public void yuzme() {
6         System.out.println("balıklar yüzler");
7     }
8
9     public void solunum() {
10        System.out.println("Solunac solunuş yaparlar");
11    }
12}
13
```

Notifications Run

Git Debug TODO Problems Terminal Services Build

Build completed successfully in 23 sec, 80 ms (3 minutes ago) 13:1 CRLF windows-1254 Tab\* master



The screenshot shows an IDE interface with the following details:

- File Menu:** File, Edit, View, Navigate, Code, Refactor, Build, Run, Tools, Git, Window, Help.
- Title Bar:** Java2021allfiles - Pr04\_Runner.java [Java2021allfiles]
- Project Explorer:** Shows a tree view of the project structure under "src". The "Pratik18\_Inheritance" package contains several sub-directories and files, with "Pr04\_Runner.java" currently selected.
- Code Editor:** Displays the content of "Pr04\_Runner.java". The code creates instances of various animal classes and calls their methods. The code is as follows:

```
1 package JavaKonusalSorular.Pratik18_Inheritance.Pr10;
2
3 public class Pr04_Runner {
4
5     public static void main(String[] args) {
6
7         Pr01_Hayvan h = new Pr01_Hayvan();
8         Pr02_1_Kus k = new Pr02_1_Kus();
9         Pr03_1_Balik b = new Pr03_1_Balik();
10        Pr02_2_Guvercin g = new Pr02_2_Guvercin();
11        Pr03_2_JaponBaligi j = new Pr03_2_JaponBaligi();
12
13        h.barinma();
14        h.beslenme();
15        h.boyut();
16        h.solunum();
17
18        k.barinma();
19        k.ucma();
20
21        b.solunum();
22        b.yuzme();
23
24        g.beslenme();
25        g.boyut();
26
27        j.solunum();
28
29    }
30
31
32
33
34
35
}
```

- Run Tab:** Shows the output of the run command. The output window displays the results of each animal's methods:

```
C:\Users\HP\jdks\openjdk-18.0.2\bin\java.exe "-javaagent:C:\F
riziktan sonra barinma vardır
hayatin merkezinde rizik vardır
her hayvanın boyutu farklıdır
solunum çeşitleri farklıdır
her kuşun yuvası vardır
kuslar ucarlar
Solungac solunuş yaparlar
balıklar yüzler
kusmukla beslenirler
her guvercinin kanat boyutu farklıdır
Solungac solunuş yaparlar
Japon balıkları solungac solunuş yaparlar

Process finished with exit code 0
```

- Bottom Navigation:** Git, Debug, TODO, Problems, Terminal, Services, Build.

File Edit View Navigate Code Refactor Build Run Tools Git Window Help Java2021allfiles - Aa\_Soru [Java2021allfiles]

Java2021allfiles > src > JavaKonusalSorular > Pratik18\_Inheritance > Pr11 > Aa\_Soru

Project Commit Pull Requests Bookmarks Structure

cin.java X Pr03\_1\_Balik.java X Pr03\_2\_JaponBaligi.java X Pr04\_Runner.java X Aa\_Soru X Pr01\_Calisan.java X Pr02\_Yonetici.java X Pr03\_Runner.java X

/\* Soru  
 \* 3 sınıf oluşturacagiz bu örneğimizde: Runner ,calisan ve yonetici sınıfları.  
 \* Calisan sınıfımız superclass , yonetici sınıfımız da subclass olacak. Runner  
 \* sınıfımız da oluşturduğumuz kodları, konsola yazdırabilmek için  
 \* oluşturacagız  
 \*  
 \* Calisan sınıfında isim ,maas ve departman değişkenleri olsun. Parametresi bu  
 \* değişkenler olan bir constructor oluşturualım. Birde bu değişkenleri  
 \* görüntüleyecek bir BilgileriGoster methodu oluşturualım.  
 \*  
 \* Yonetici sınıfında yine parametresi SperClasstaki değişkenler olan bir  
 \* constructor oluşturualım.Birde parametresi int zam olan br method oluşturualım.  
 \* Bu method bize zam miktarı belirtildiğinde ne kadar zam yapılması gerektiğini  
 \* belirtsin.  
 \*/

Aa\_Soru

Pr01\_Calisan

Pr02\_Yonetici

Pr03\_Runner

Pratik19\_Override

Pratik20\_Exceptions

Pratik21\_Abstract

Pratik22\_Interface

Pratik23\_Iterator

Pratik24\_Set\_HashSet\_Link

Pratik25\_Queue\_Degue

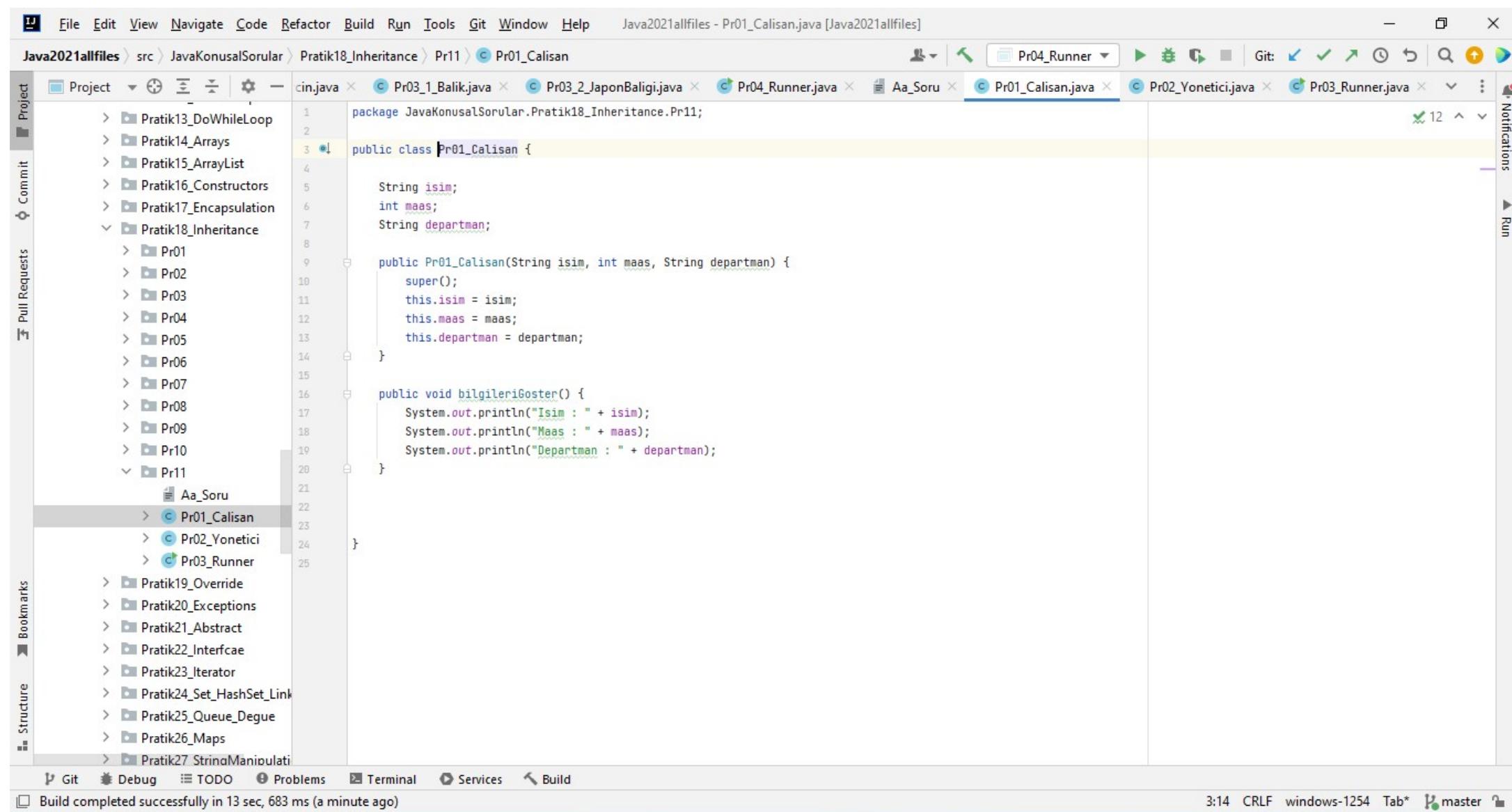
Pratik26\_Maps

Pratik27\_StringManipulati

Git Debug TODO Problems Terminal Services Build

Build completed successfully in 13 sec, 683 ms (a minute ago)

1:1 CRLF windows-1254 4 spaces master



File Edit View Navigate Code Refactor Build Run Tools Git Window Help Java2021allfiles - Pr02\_Yonetici.java [Java2021allfiles]

Java2021allfiles > src > JavaKonusalSorular > Pratik18\_Inheritance > Pr11 > Pr02\_Yonetici > zam

Project Commit Pull Requests Bookmarks Structure

Project

```
1 package JavaKonusalSorular.Pratik18_Inheritance.Pr11;
2
3 public class Pr02_Yonetici extends Pr01_Calisan {
4
5     public Pr02_Yonetici(String isim, int maas, String departman) {
6
7         super(isim, maas, departman);
8     }
9
10    public void zam(int zamMiktari) {
11        System.out.println("Yapilacak zam miktarı : " + zamMiktari);
12    }
13
14
15
16
17 }
```

Notifications Run

Git Debug TODO Problems Terminal Services Build

Build completed successfully in 13 sec, 683 ms (a minute ago) 10:36 CRLF windows-1254 Tab\* master

File Edit View Navigate Code Refactor Build Run Tools Git Window Help Java2021allfiles - Pr03\_Runner.java [Java2021allfiles]

Java2021allfiles > src > JavaKonusalSorular > Pratik18\_Inheritance > Pr11 > Pr03\_Runner

Project Commit Pull Requests Bookmarks Structure

Pr03\_Runner.java Aa\_Soru Pr01\_Calisan.java Pr02\_Yonetici.java Pr03\_Runner.java Run: JavaKonusalSorular.Pratik18\_Inheritance.Pr11.Pr03\_Runner

```
1 package JavaKonusalSorular.Pratik18_Inheritance.Pr11;
2
3 public class Pr03_Runner {
4
5     public static void main(String[] args) {
6
7         Pr02_Yonetici yonetici = new Pr02_Yonetici( isim: "Ali Can", maas: 10000, departman: "IT");
8
9         yonetici.bilgileriGoster();
10        yonetici.zam( zamMiktari: 2000);
11
12    }
13
14 }
15
16 }
```

C:\Users\HP\.jdks\openjdk-18.0.2\bin\java.exe "-javaagent:C:\Program Files\Java\Java Mission Control\jmc.jar" -Dfile.encoding=UTF-8 JavaKonusalSorular.Pratik18\_Inheritance.Pr11.Pr03\_Runner  
Isim : Ali Can  
Maas : 10000  
Departman : IT  
Yapılacak zam miktarı : 2000  
Process finished with exit code 0

Git Debug TODO Problems Terminal Services Build

All files are up-to-date (moments ago) 8:1 CRLF windows-1254 Tab\* master

The screenshot shows a Java IDE interface with the following details:

- File Bar:** File, Edit, View, Navigate, Code, Refactor, Build, Run, Tools, Git, Window, Help.
- Title Bar:** Java2021allfiles - Overriding.java [Java2021allfiles]
- Project Explorer:** Shows a tree view of the project structure under "src". The "Overriding" file is selected.
- Code Editor:** Displays the content of Overriding.java. The code is annotated with explanatory comments in Turkish.
- Toolbars and Status Bar:** Includes Git, Terminal, Services, Build, and a status bar indicating the file is up-to-date (5 minutes ago) and the current commit is master.

```
package JavaKonusalSorular.Pratik19_Override.Pr01;

public class Overriding {

    /*Overriding::::
     * Parent class'daki bir METHOD'u child class'a gore ozellestirerek kullanmanin adidir.
     * OVERRIDING KURALLARI
     * 1) Overriding creat edilirken "method signature" (name+ parameters)
     *      kesinlikle ve ASLAAA degistirilemez...!!!
     *
     * 2) Overriding creat edilirken "access modifier" belirli kurallara gore degistirilebilir
     *
     * 3) Overriding creat edilirken "return type" belirli kurallara gore degistirilebilir
     *
     * 4) Overriding creat edilirken "method body" %99 degistirilir.
     *      ama degistirilmezse CTE vermez (amelelik olur overriding amaci body creat etmek .)
     *
     * 5) Overriding creat edilirken "parent - child" relationship sarttir.
     *      Ahan da trick : inheritance olamadan overriding olamz OLAMAZZZ...!
     *
     * 6) "Overridden method": Parent class'daki methoddur(avallli ezilen)
     *      "Overriding method": Child class'daki methoddur( ezen)
     *
     * 7) "Overriding method" (child )'in AccMod ya "Overridden method" (parent) ile gunci ya da
     *      daha genis olmali Evlat babanin erisimini doraltamaz ama genisletebilir. SubAccMod >= SuperAccMod
     *
     * 8) "Overriding method" (child )'in return type void ise "Overridden method" (parent) return type void olmali
     *      Kendinden olmayani kanul etmez
     *
     * 9) "Overriding method" (child )'in return type Wrapper clas'dan ise "Overridden method" (parent) return type Wrapper clas'dan
     *      olmali kendinden olmayani kabul etmez
     *
     * 10) "Overriding method" (child )'in return type ile "Overridden method" (parent) return grasinda is-A (child-->parent relationship)
     *      iliskisi olmali
```