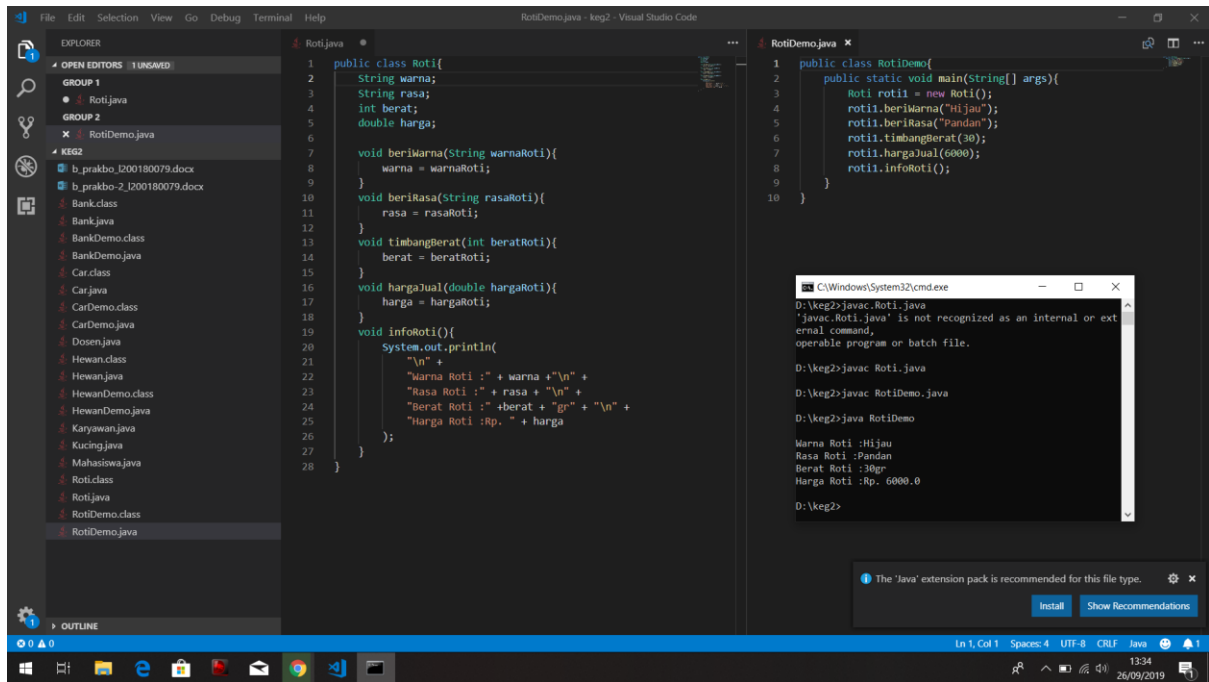


Nama : Akbar Probo Baskoro

NIM/Kelas : L200180078/B

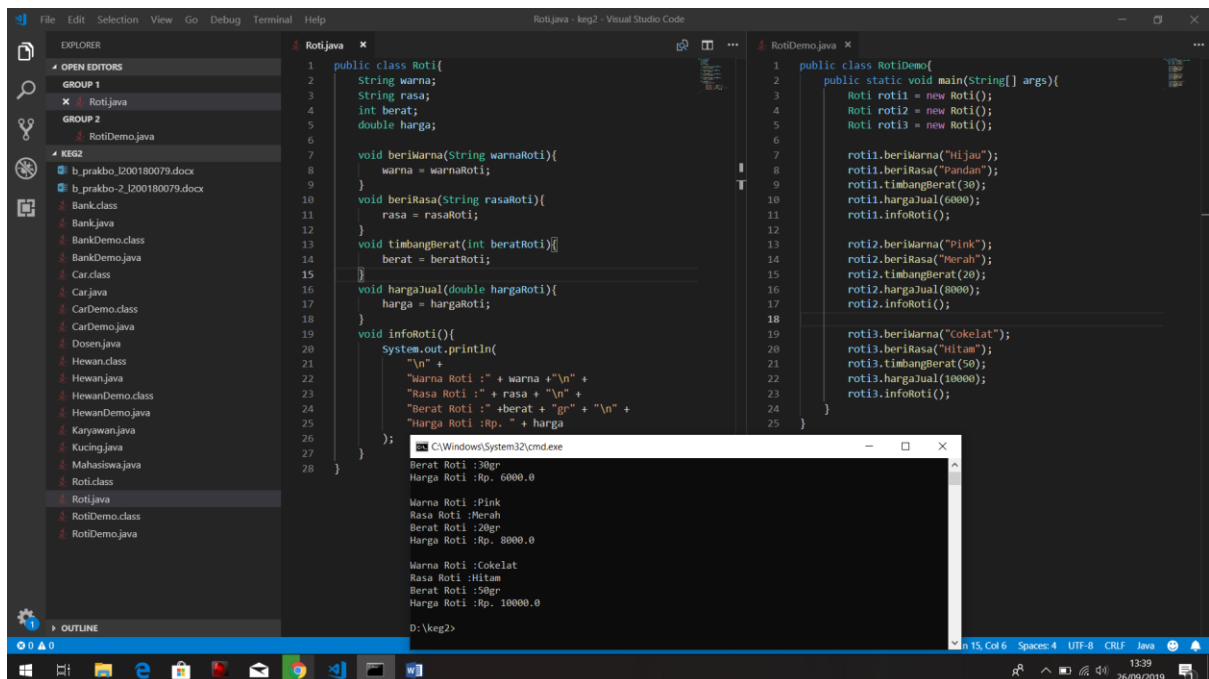
Modul 2.



```
Roti.java
1 public class Roti{
2     String warna;
3     String rasa;
4     int berat;
5     double harga;
6
7     void beriWarna(String warnaRoti){
8         warna = warnaRoti;
9     }
10    void beriRasa(String rasaRoti){
11        rasa = rasaRoti;
12    }
13    void timbangBerat(int beratRoti){
14        berat = beratRoti;
15    }
16    void hargaJual(double hargaRoti){
17        harga = hargaRoti;
18    }
19    void infoRoti(){
20        System.out.println(
21            "\n" +
22            "Warna Roti : " + warna + "\n" +
23            "Rasa Roti : " + rasa + "\n" +
24            "Berat Roti : " + berat + "gr" + "\n" +
25            "Harga Roti :Rp. " + harga
26        );
27    }
28 }
```

```
RotiDemo.java
1 public class RotiDemo{
2     public static void main(String[] args){
3         Roti roti1 = new Roti();
4         roti1.beriWarna("Hijau");
5         roti1.beriRasa("Pandan");
6         roti1.timbangBerat(30);
7         roti1.hargaJual(6000);
8         roti1.infoRoti();
9     }
10 }
```

```
C:\Windows\System32\cmd.exe
D:\keg2>javac Roti.java
'javac.Roti.java' is not recognized as an internal or external command, operable program or batch file.
D:\keg2>javac RotiDemo.java
D:\keg2>java RotiDemo
Warna Roti :Hijau
Rasa Roti :Pandan
Berat Roti :30gr
Harga Roti :Rp. 6000.0
D:\keg2>
```



```
Roti.java
1 public class Roti{
2     String warna;
3     String rasa;
4     int berat;
5     double harga;
6
7     void beriWarna(String warnaRoti){
8         warna = warnaRoti;
9     }
10    void beriRasa(String rasaRoti){
11        rasa = rasaRoti;
12    }
13    void timbangBerat(int beratRoti){
14        berat = beratRoti;
15    }
16    void hargaJual(double hargaRoti){
17        harga = hargaRoti;
18    }
19    void infoRoti(){
20        System.out.println(
21            "\n" +
22            "Warna Roti : " + warna + "\n" +
23            "Rasa Roti : " + rasa + "\n" +
24            "Berat Roti : " + berat + "gr" + "\n" +
25            "Harga Roti :Rp. " + harga
26        );
27    }
28 }
```

```
RotiDemo.java
1 public class RotiDemo{
2     public static void main(String[] args){
3         Roti roti1 = new Roti();
4         Roti roti2 = new Roti();
5         Roti roti3 = new Roti();
6
7         roti1.beriWarna("Hijau");
8         roti1.beriRasa("Pandan");
9         roti1.timbangBerat(30);
10        roti1.hargaJual(6000);
11        roti1.infoRoti();
12
13        roti2.beriWarna("Pink");
14        roti2.beriRasa("Merah");
15        roti2.timbangBerat(20);
16        roti2.hargaJual(8000);
17        roti2.infoRoti();
18
19        roti3.beriWarna("Cokelat");
20        roti3.beriRasa("Hitam");
21        roti3.timbangBerat(50);
22        roti3.hargaJual(10000);
23        roti3.infoRoti();
24    }
25 }
```

```
C:\Windows\System32\cmd.exe
D:\keg2>javac Roti.java
D:\keg2>javac RotiDemo.java
D:\keg2>java RotiDemo
Warna Roti :Hijau
Rasa Roti :Pandan
Berat Roti :30gr
Harga Roti :Rp. 6000.0

Warna Roti :Pink
Rasa Roti :Merah
Berat Roti :20gr
Harga Roti :Rp. 8000.0

Warna Roti :Cokelat
Rasa Roti :Hitam
Berat Roti :50gr
Harga Roti :Rp. 10000.0
D:\keg2>
```

The screenshot shows the Visual Studio Code interface with the `CarDemo.java` file open. The Explorer sidebar on the left lists various files, including `Roti.java`, `Car.java`, `RotiDemo.java`, and `CarDemo.java`. The main editor displays the code for `CarDemo.java`, which includes a `Car` class and a `CarDemo` class with a `main` method. The terminal window at the bottom shows the execution of the program, displaying the output of the `main` method.

```
1 public class Car{
2     int cadence;
3     int speed;
4     int gear;
5
6     void changeCadence(int cdc){
7         cadence = cdc;
8     }
9     void speedUp(int spd){
10        speed = spd;
11    }
12    void changeGear(int gear){
13        this.gear = gear;
14    }
15    void printInfo(){
16        System.out.println(
17            "Irama : " + cadence + "\n" +
18            "Kecepatan : " + speed + "\n" +
19            "Gear : " + gear + "\n"
20        );
21    }
22 }
```

```
1 public class CarDemo{
2     public static void main(String[] args){
3         Car car1 = new Car();
4         Car car2 = new Car();
5
6         car1.changeCadence(50);
7         car1.speedUp(20);
8         car1.changeGear(2);
9         car1.printInfo();
10
11        car2.changeCadence(30);
12        car2.speedUp(10);
13        car2.changeGear(1);
14        car2.printInfo();
15    }
16 }
```

Output in terminal:

```
D:\keg2>javac Car.java
D:\keg2>javac CarDemo.java
D:\keg2>java CarDemo
Irama :50
Kecepatan :20
Gear :2

Irama :30
Kecepatan :10
Gear :1
D:\keg2>
```

The screenshot shows the Visual Studio Code interface with the `Kucing.java` file open. The Explorer sidebar on the left lists various files, including `Roti.java`, `Car.java`, `RotiDemo.java`, and `Kucing.java`. The main editor displays the code for `Kucing.java`, which includes a `Kucing` class with methods `meong` and `umur`.

```
1 public class Kucing{
2     int umur;
3     String bulu;
4
5     void meong(String ngeong){
6         bulu = ngeong;
7     }
8     void umur(int umur){
9         this.umur = umur;
10    }
11 }
```

The screenshot shows the Visual Studio Code interface with the `BankDemo.java` file open. The Explorer pane on the left shows the project structure with files like `Roti.java`, `BankDemo.java`, and `Bank.java`. The main editor displays the `BankDemo.java` code, which includes a `main` method that creates a `Bank` object and calls methods like `cek_saldo`, `menabung`, `tarik`, and `transferan`. The Output pane at the bottom shows the execution results of these methods, including account balance and transaction details.

```
public class BankDemo{
    public static void main(String[] args){
        Bank bank1 = new Bank();
        bank1.cek_saldo();
        bank1.menabung(3000000);
        bank1.tarik(1000000);
        bank1.transferan(200000);
        bank1.cek_saldo();
    }
}
```

Output:

```
D:\keg2>javac Bank.java
D:\keg2>javac BankDemo.java
D:\keg2>java BankDemo
No Rekening :12011998
Nama :Akbar Probo Baskoro
Saldo Rekening Anda Adalah :100000.0

Anda telah menabung sejumlah Rp. 3000000.0

Anda telah melakukan penarikan sejumlah Rp. 100000.0

Anda telah mentransfer uang sejumlah Rp. 200000.0

No Rekening :12011998
Nama :Akbar Probo Baskoro
Saldo Rekening Anda Adalah :1900000.0
```

The screenshot shows the Visual Studio Code interface with the `HewanDemo.java` file open. The Explorer pane on the left shows the project structure with files like `Roti.java`, `BankDemo.java`, `Bank.java`, and `HewanDemo.java`. The main editor displays the `HewanDemo.java` code, which includes a `main` method that creates `Hewan` objects and calls methods like `JNama`, `JKaki`, `JMakanan`, `JHewan`, and `JjenisHewan`. The Output pane at the bottom shows the execution results, including animal names, number of legs, food, and species.

```
public class HewanDemo{
    public static void main(String[] args){
        Hewan hewan1 = new Hewan();
        Hewan hewan2 = new Hewan();
        Hewan hewan3 = new Hewan();

        hewan1.JNama("kelinci");
        hewan1.JKaki(4);
        hewan1.JMakanan("Rumput");
        hewan1.JHewan("Herbivora");
        hewan1.JjenisHewan();

        hewan2.JNama("Kocheng Oren");
        hewan2.JKaki(6);
        hewan2.JMakanan("Kornet");
        hewan2.JHewan("Karnivora");
        hewan2.JjenisHewan();

        hewan3.JNama("Harimau");
        hewan3.JKaki(4);
        hewan3.JMakanan("Daging");
        hewan3.JHewan("Karnivora");
        hewan3.JjenisHewan();
    }
}
```

Output:

```
D:\keg2>javac Hewan.java
D:\keg2>javac HewanDemo.java
D:\keg2>java HewanDemo
Nama Hewan :Kelinci
Jumlah Kaki :4
Makanan :Rumput
Type Hewan :Herbivora

Nama Hewan :Kocheng Oren
Jumlah Kaki :6
Makanan :Kornet
Type Hewan :Karnivora

Nama Hewan :Harimau
Jumlah Kaki :4
Makanan :Daging
Type Hewan :Karnivora
```

The screenshot shows the Visual Studio Code interface with the file 'Mahasiwa.java' open. The Explorer sidebar on the left lists several files, including 'Mahasiwa.java' which is currently selected. The main editor area displays the following Java code:

```
1 public class Mahasiwa{
2     String nama;
3     String alamat;
4     int nim;
5     int semester;
6
7     void tampilkanNama(String name){
8         nama = name;
9     }
10    void tampilkanAlamat(String almt){
11        alamat = almt;
12    }
13    void tampilkanNim(int Nim){
14        nim = Nim;
15    }
16    void tampilkanSemester(int smtr){
17        semester = smtr;
18    }
19 }
```

The status bar at the bottom indicates 'Ln 1, Col 1', 'Spaces: 4', 'UTF-8', 'CRLF', and 'Java'. The system tray shows the date '26/09/2019' and time '13:59'.

The screenshot shows the Visual Studio Code interface with the file 'Dosen.java' open. The Explorer sidebar on the left lists several files, including 'Dosen.java' which is currently selected. The main editor area displays the following Java code:

```
1 public class Dosen{
2     String nama;
3     int nik;
4     String pendidikan;
5     Date tgllahir;
6
7     void tampilkanNama(String name){
8         nama = name;
9     }
10    void tampilkanNik(int nik){
11        this.nik = nik;
12    }
13    void tampilkanTglLahir(Date tgl){
14        tgllahir = tgl;
15    }
16 }
```

The status bar at the bottom indicates 'Ln 1, Col 1', 'Spaces: 4', 'UTF-8', 'CRLF', and 'Java'. The system tray shows the date '26/09/2019' and time '14:00'.

2.2 gambar class diagram dari class RotiDemo

RotiDemo
#nama : String #rasa : String #berat : integer #harga : integer
#beriWarna() #beriRasa() #timbangBerat() #hargaJual()

Daftar variable dan fungsi/method yang dimiliki oleh Class String

- String dataString = "Data didalam String"
- codePointAt(int) = mengembalikan code ASCII dari sebuah char yang di ambil dari String yang bersangkutan
- charAt(int) = mengembalikan Karakter yang ada di sebuah string bersangkutan sesuai dengan index yang di masukkan.
- codePointBefore(int) = mengembalikan code ASCII dari karakter yang di ambil dari sebuah String