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Java

Java Fundamental | Bootcamp
Nested Loop

Subjects : Nested Loop

1. For String
2. For Int
3. For Conditional
4. For under For
5. Array 1D

Tanpa For - String

```
public class KelasCetakStringTanpaFor {
    Run | Debug
    public static void main(String[] args) {
        String buah = "APEL";
        System.out.println(buah);
        System.out.println(buah);
        System.out.println(buah);
    }
}
```

```
APEL
APEL
APEL
```

Tanpa For - String

```java
public class KelasCetakStringTanpaFor {
    Run | Debug
    public static void main(String[] args) {
        String buah = "APEL";
        System.out.print(buah);
        System.out.print(buah);
        System.out.print(buah);
    }
}
```

```
APELAPELAPEL
```

Tanpa For - String

```
public class KelasCetakStringBerulangKeSampingTanpaFor {
    Run | Debug
    public static void main(String[] args) {
        String buah = "APEL";
        System.out.print(buah+" ");
        System.out.print(buah+" ");
        System.out.print(buah+" ");
    }
}
```

```
APEL APEL APEL
```

Tanpa For - String

```
public class KelasCetakStringBerulangKeSampingKarakterTanpaFor {
    Run | Debug
    public static void main(String[] args) {
        String buah = "APEL";
        System.out.print(buah+"-");
        System.out.print(buah+"-");
        System.out.print(buah+"-");
    }
}
```

```
APEL-APEL-APEL
```

For - String

```java
public class KelasCetakStringDenganFor {
    Run | Debug
    public static void main(String[] args) {
        String buah = "APEL";

        for (int i = 0; i < 3; i++) {
            System.out.println(buah);
        }
    }
}
```

```
APEL
APEL
APEL
```

For - String

```
public class KelasCetakStringDenganFor {
    Run | Debug
    public static void main(String[] args) {
        String buah = "APEL";

        for (int i = 0; i < 3; i++) {
            System.out.print(buah);
        }
    }
}
```

```
APELAPELAPEL
```

For - String

```
public class KelasCetakStringDenganForKeSampingSpasi {
    Run | Debug
    public static void main(String[] args) {
        String buah = "APEL";

        for (int i = 0; i < 3; i++) {
            System.out.print(buah+" ");
        }
    }
}
```

```
APEL APEL APEL
```

For - String

```
public class KelasCetakStringDenganForKeSampingKarakter {
    Run | Debug
    public static void main(String[] args) {
        String buah = "APEL";

        for (int i = 0; i < 3; i++) {
            System.out.print(buah+"-");
        }
    }
}
```

```
APEL-APEL-APEL-
```

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For - String

```
public class KelasCetakStringDenganForKeSampingVariable {
    Run | Debug
    public static void main(String[] args) {
        String buah = "APEL";

        for (int i = 0; i < 3; i++) {
            System.out.print(buah+i+" ");
        }
    }
}
```

```
APEL0 APEL1 APEL2
```

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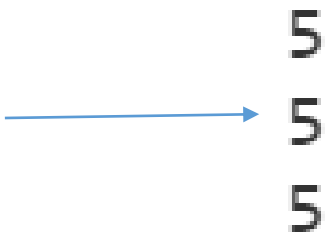
For - Int

```
public class KelasCetakAngkaTanpaFor {
    Run | Debug
    public static void main(String[] args) {
        int angka = 5;
        System.out.println(angka);
        System.out.println(angka);
        System.out.println(angka);
    }
}
```



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For - Int

```
public class KelasCetakAngkaDenganFor {
    Run | Debug
    public static void main(String[] args) {
        int angka = 5;
        for (int i = 0; i < 3; i++) {
            System.out.println(angka);
        }
    }
}
```

```
5
5
5
```

For - Int

```
public class KelasCetakAngkaDenganForKeSamping {
    Run | Debug
    public static void main(String[] args) {
        int angka = 5;
        for (int i = 0; i < 3; i++) {
            System.out.print(angka+" ");
        }
    }
}
```

```
5 5 5
```

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For - Int

```
public class KelasCetakAngkaDenganFor2 {
    Run | Debug
    public static void main(String[] args) {
        int angka = 5;
        for (int i = 0; i < 3; i++) {
            System.out.print(angka+" ");
            angka = angka - 5;
        }
    }
}
```

```
5 0 -5
```

For - Kondisi

```java
public class KelasCetakForKondisi {
    Run | Debug
    public static void main(String[] args) {
        String buah = "APEL";
        for (int i = 0; i < 3; i++) {
            System.out.println(buah+i);
        }
    }
}
```

```
APEL0
APEL1
APEL2
```

For - Kondisi

```java
public class KelasCetakForKondisi2 {
    Run | Debug
    public static void main(String[] args) {
        String buah = "APEL";
        String sayur = "BAYAM";

        for (int i = 0; i < 3; i++) {

            if (i == 1) {
                System.out.println(buah+i);
            } else {
                System.out.println(sayur+i);
            }

        }
    }
}
```

```
BAYAM0
APEL1
BAYAM2
```

For - Kondisi

```java
public class KelasCetakForKondisi3 {
    Run | Debug
    public static void main(String[] args) {
        for (int hari = 1; hari <= 7; hari++) {

            if (hari == 5) {
                System.out.println("Ada Jumatan");
            } else if (hari == 4 || hari == 7) {
                System.out.println("Libur Weekend");
            }else {
                System.out.println("Kerja");
            }

        }
    }
}
```

```
Kerja
Kerja
Kerja
Libur Weekend
Ada Jumatan
Kerja
Libur Weekend
```

For under For

```
public class KelasForUnderFor {
    Run | Debug
    public static void main(String[] args) {
        String buah = "APEL";
        for (int i = 0; i < 3; i++) {
            System.out.print(buah+" ");
        }
    }
}
```

```
APEL APEL APEL
```

For under For

```java
public class KelasForUnderFor2 {
    Run | Debug
    public static void main(String[] args) {
        String buah = "APEL";

        for (int i = 0; i < 3; i++) {
            System.out.print(buah + " ");
        }

        System.out.println();

        for (int i = 0; i < 3; i++) {
            System.out.print(buah + " ");
        }
    }
}
```

```
APEL APEL APEL
APEL APEL APEL
```

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For under For

```java
public class KelasForUnderFor3 {
    Run | Debug
    public static void main(String[] args) {
        String buah = "APEL";

        for (int i = 0; i < 3; i++) {
            System.out.print(buah + " ");
        }
        System.out.println();

        for (int i = 0; i < 3; i++) {
            System.out.print(buah + " ");
        }
        System.out.println();

        for (int i = 0; i < 3; i++) {
            System.out.print(buah + " ");
        }
        System.out.println();

        for (int i = 0; i < 3; i++) {
            System.out.print(buah + " ");
        }
        System.out.println();
    }
}
```

```
APEL APEL APEL
APEL APEL APEL
APEL APEL APEL
APEL APEL APEL
```

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For under For

```java
public class KelasForUnderFor4 {
    Run | Debug
    public static void main(String[] args) {
        for (int x = 0; x < 2; x++) {

            String buah = "APEL";

            for (int i = 0; i < 3; i++) {
                System.out.print(buah + " ");
            }
            System.out.println();

        }
    }
}
```

```
APEL APEL APEL
APEL APEL APEL
```

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For under For

```
public class KelasForUnderFor5 {
    Run | Debug
    public static void main(String[] args) {
        for (int x = 0; x < 4; x++) {

            String buah = "APEL";

            for (int i = 0; i < 3; i++) {
                System.out.print(buah + " ");
            }

            System.out.println();

        }
    }
}
```

```
APEL APEL APEL
APEL APEL APEL
APEL APEL APEL
APEL APEL APEL
```

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For under For

```
public class KelasForUnderFor6 {
    Run | Debug
    public static void main(String[] args) {
        for (int x = 0; x < 4; x++) {

            int angka = 1;

            for (int i = 0; i < 3; i++) {
                System.out.print(angka + " ");
            }
            System.out.println();

        }
    }
}
```

```
1 1 1
1 1 1
1 1 1
1 1 1
```

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Pengenalan Array

Contoh

TipeData[] namaVariable;

String[] cars;

```
String[] cars;
```

Array 1D – String Definition

```java
package day2.day6;

public class KelasArrayDasar {
    Run | Debug
    public static void main(String[] args) {
        String sayur = "BROKOLI";
        //variable sayur tipenya String, hanya berisi 1 nilai yaitu BROKOLI

        String[] sayuran;
        //variable sayuran tipenya String, ada kotak siku [],
        //berarti bisa berisi lebih dari 1 nilai,
        //tetapi belum ditentukan berapa nilai yang terisi
    }
}
```

Array 1D – String – Input Value

```
public class KelasArrayString {
    Run | Debug
    public static void main(String[] args) {
        String[] sayuran = {"BROKOLI", "BAYAM", "KANGKUNG"};
    }
}
```

Array 1D – String – Output Value

```
public class KelasArrayStringOutput {
    Run | Debug
    public static void main(String[] args) {
        /// index array     0         , 1       ,  2
        String[] sayuran = {"BROKOLI", "BAYAM", "KANGKUNG"};
        System.out.println(sayuran[0]); //[0] artinya array index ke 0 dari sayuran yaitu BROKOLI
        System.out.println(sayuran[1]); //[1] artinya array index ke 1 dari sayuran yaitu BAYAM
        System.out.println(sayuran[2]); //[2] artinya array index ke 2 dari sayuran yaitu KANGKUNG
    }
}
```

Array 1D – String – Output Value – With For

```
public class KelasArrayStringOutputPakaiFor {
    Run | Debug
    public static void main(String[] args) {
        /// index array     0         , 1       ,  2
        String[] sayuran = {"BROKOLI", "BAYAM", "KANGKUNG"};
        for (int i = 0; i < sayuran.length; i++) {
            System.out.println(sayuran[i]);
        }
    }
}
```

```
BROKOLI
BAYAM
KANGKUNG
```

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