

# Pemrograman Desktop - Tugas 2

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## Soal No 1

Buatlah screen shoot sebuah program diskon menggunakan bahasa pemrograman java disertai outputnya dengan ketentuan:

1. jika pembelian lebih dari 50.000 maka diskon 20%.
2. Tampilkan harga total yang harus dibayar oleh pembeli.

Misal (pembelian : 100.000 maka total yang harus dibayarkan 80.000)

## Jawab

```
package org.example;

import java.text.NumberFormat;
import java.util.Locale;
import java.util.Scanner;

public class Discount {
    public static void main(String[] args) {
        Scanner scn = new Scanner(System.in);
        System.out.print("Masukkan harga pembelian: ");
        float price = scn.nextFloat();

        float discount = 0.0f;
        float discountedPrice;
        if (price > 50000.0f) {
            discount = 20.0f;
        }
        discountedPrice = discount / 100.f * price;
        float total = price - discountedPrice;

        Locale locale = new Locale("id", "ID");
        NumberFormat numberFormat = NumberFormat.getNumberInstance(locale);
        System.out.println("Price : " + numberFormat.format(price));
        System.out.println("Discount " + Math.round(discount) + "% : " + numberFormat.format(discountedPrice));
        System.out.println("Total (after discount) : " + numberFormat.format(total));
    }
}
```

```

1 package org.example;
2
3 import java.text.NumberFormat;
4 import java.util.Locale;
5 import java.util.Scanner;
6
7 public class Discount {
8     public static void main(String[] args) {
9         Scanner scn = new Scanner(System.in);
10        System.out.print("Masukkan harga pembelian: ");
11        float price = scn.nextFloat();
12
13        float discount = 0.0f;
14        float discountedPrice;
15        if (price > 50000.0f) {
16            discount = 20.0f;
17        }
18        discountedPrice = discount / 100.f * price;
19        float total = price - discountedPrice;
20
21        Locale locale = new Locale("id", "ID");
22        NumberFormat numberFormat = NumberFormat.getNumberInstance(locale);
23        System.out.println("Price : " + numberFormat.format(price));
24        System.out.println("Discount : " + Math.round(discount) + "% : " + numberFormat.format(discountedPrice));
25        System.out.println("Total (after discount) : " + numberFormat.format(total));
26    }
27 }

```

Run: desktop\_programming [:Discount.main()]

21.13.37: Executing ':Discount.main()'...

> Task :compileJava UP-TO-DATE

> Task :processResources NO-SOURCE

> Task :classes UP-TO-DATE

> Task :Discount.main()

Masukkan harga pembelian: 75.000

Price : 75.000

Discount 20% : 15.000

Total (after discount) : 60.000

Deprecated Gradle features were used in this

You can use '--warning-mode all' to show the

plugins.

See <https://docs.gradle.org/7.4/userguide/co>

BUILD SUCCESSFUL in 5s

2 actionable tasks: 1 executed, 1 up-to-date

21.13.42: Execution finished ':Discount.main'

Figure 1: discount screenshot 1

```

1 package org.example;
2
3 import java.text.NumberFormat;
4 import java.util.Locale;
5 import java.util.Scanner;
6
7 public class Discount {
8     public static void main(String[] args) {
9         Scanner scn = new Scanner(System.in);
10        System.out.print("Masukkan harga pembelian: ");
11        float price = scn.nextFloat();
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13        float discount = 0.0f;
14        float discountedPrice;
15        if (price > 50000.0f) {
16            discount = 20.0f;
17        }
18        discountedPrice = discount / 100.f * price;
19        float total = price - discountedPrice;
20
21        Locale locale = new Locale("id", "ID");
22        NumberFormat numberFormat = NumberFormat.getNumberInstance(locale);
23        System.out.println("Price : " + numberFormat.format(price));
24        System.out.println("Discount : " + Math.round(discount) + "% : " + numberFormat.format(discountedPrice));
25        System.out.println("Total (after discount) : " + numberFormat.format(total));
26    }
27 }

```

Run: desktop\_programming [:Discount.main()]

21.13.57: Executing ':Discount.main()'...

> Task :compileJava UP-TO-DATE

> Task :processResources NO-SOURCE

> Task :classes UP-TO-DATE

> Task :Discount.main()

Masukkan harga pembelian: 35.000

Price : 35.000

Discount 0% : 0

Total (after discount) : 35.000

Deprecated Gradle features were used in

You can use '--warning-mode all' to show

plugins.

See <https://docs.gradle.org/7.4/userguide/co>

BUILD SUCCESSFUL in 6s

2 actionable tasks: 1 executed, 1 up-to-date

21.14.03: Execution finished ':Discount'

Figure 2: discount screenshot 2

## Soal No 2

```
public class MyClass {  
    public static void main(String args[]) {  
        int i = 1;  
        while (i <= 10) {  
            System.out.println(i);  
            i++;  
        }  
    }  
}
```

Modifikasi oleh Anda program di atas tanpa merubah struktur program sehingga menghasilkan output deret 1 s.d 10 terurut menurun. Kumpulkan bukti kode program dan outputnya berupa screenshot.

## Jawab

```
package org.example;  
  
public class MyClass {  
    public static void main(String args[]) {  
        int i = 10;  
        while (i >= 1) {  
            System.out.println(i);  
            i--;  
        }  
    }  
}
```

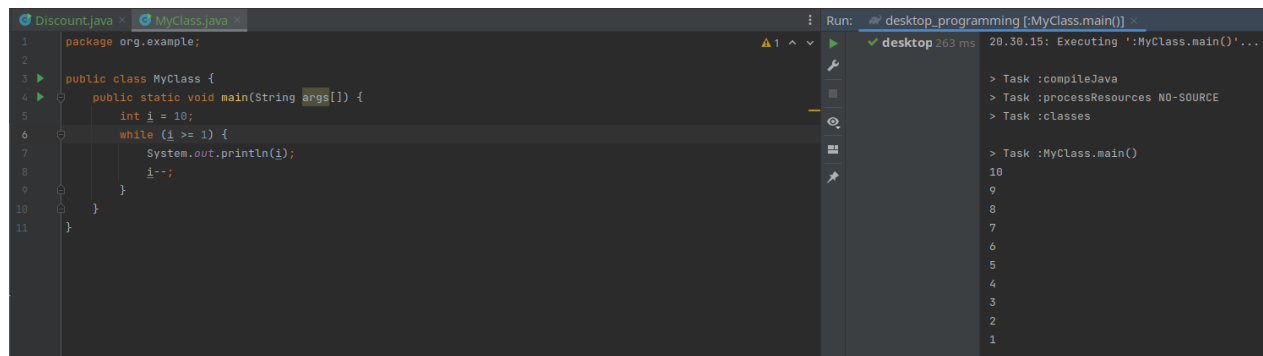


Figure 3: myclass screenshot

### Soal No 3

```
public class Bilangan {  
    public static void main(String[] args) {  
        System.out.print("Bilangan Ganjil dari 1 - 30 : ");  
        for (int x = 1; x <= 30; x++) {  
            if (x % 2 == 1)  
                System.out.print(" " + x);  
        }  
    }  
}
```

Kode program di atas adalah menampilkan bilangan ganjil. Modifikasi oleh Anda dari kode program di atas sehingga menampilkan bilangan genap!

### Jawab

```
package org.example;  
  
public class Bilangan {  
    public static void main(String[] args){  
        System.out.print("Bilangan Genap dari 1 - 30 : ");  
        for(int x = 1; x <= 30; x++){  
            if(x % 2 == 0 )  
                System.out.print(" " + x);  
        }  
    }  
}
```

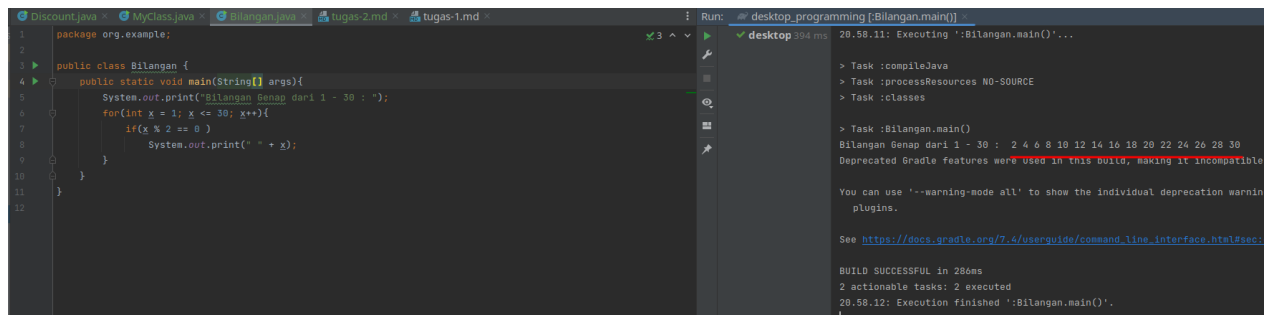


Figure 4: bilangan screenshot