



Concepts of Programming

Day 4: Sep 2022

Introduction to Java

Kiran Waghmare

CDAC Mumbai

Date: 16-09-2022



Who can see what you share here? Recording On

Topic:

- Switch
- Class & Object

If: 1 condition

If-Else: 2 conditions

Nested If

```
if(cond)
{
    //True state code
    if(cond)
    {
        //True state code
    }
}
else
{
    //False state code
}
```

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Who can see what you share here? Recording On

Topic:

- Switch
- Class & Object

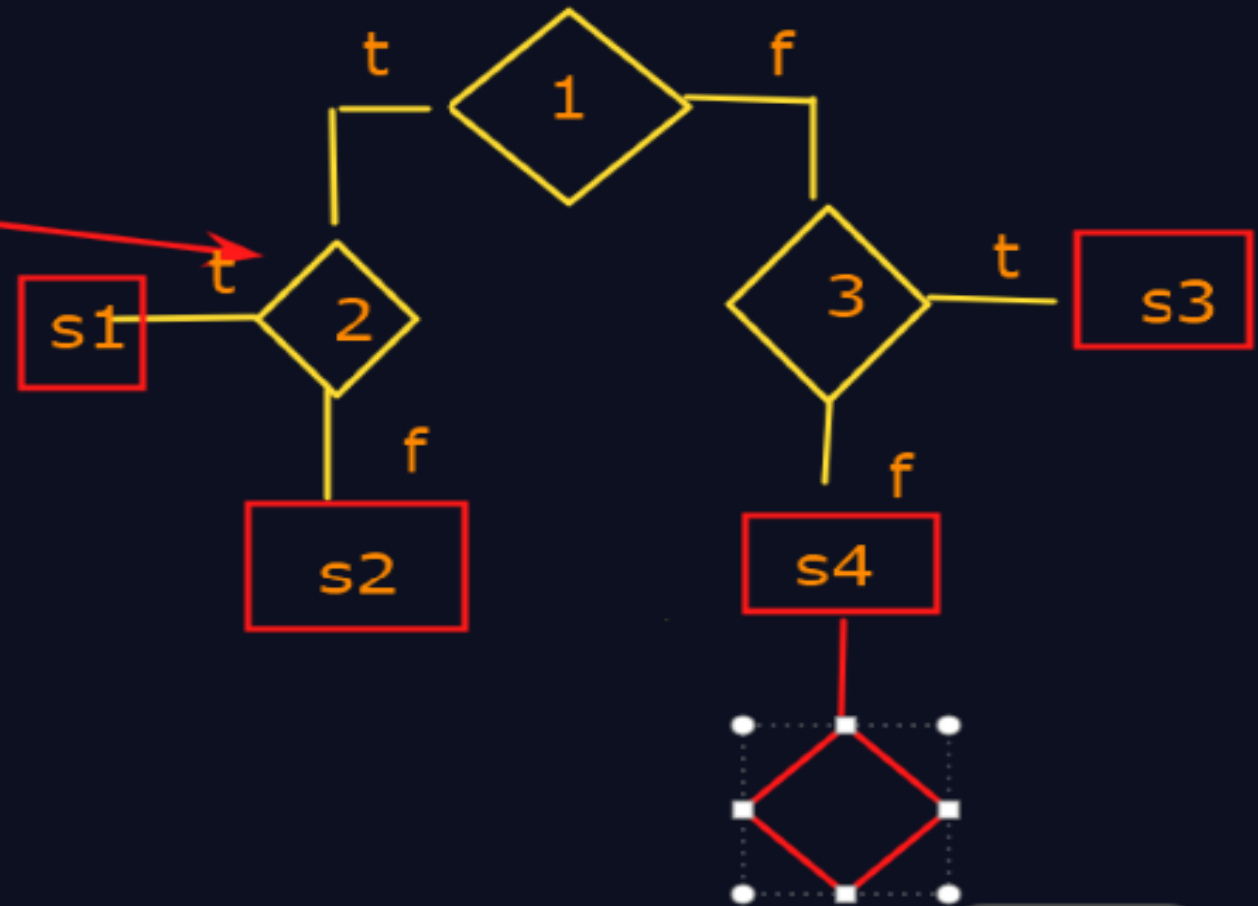
If: 1 condition

If-Else: 2 conditions

```
if(cond)
{
    //True state code
    if(cond)
    {
        //True state code
    }
    else
    {
        //False state code
    }
}
else
{
    //False state code
}
```

```
if (cond)  
{  
    //True state code  
    if (cond)  
    {  
        //True state code  
    }  
    else  
    {  
        //False state code  
    }  
}
```

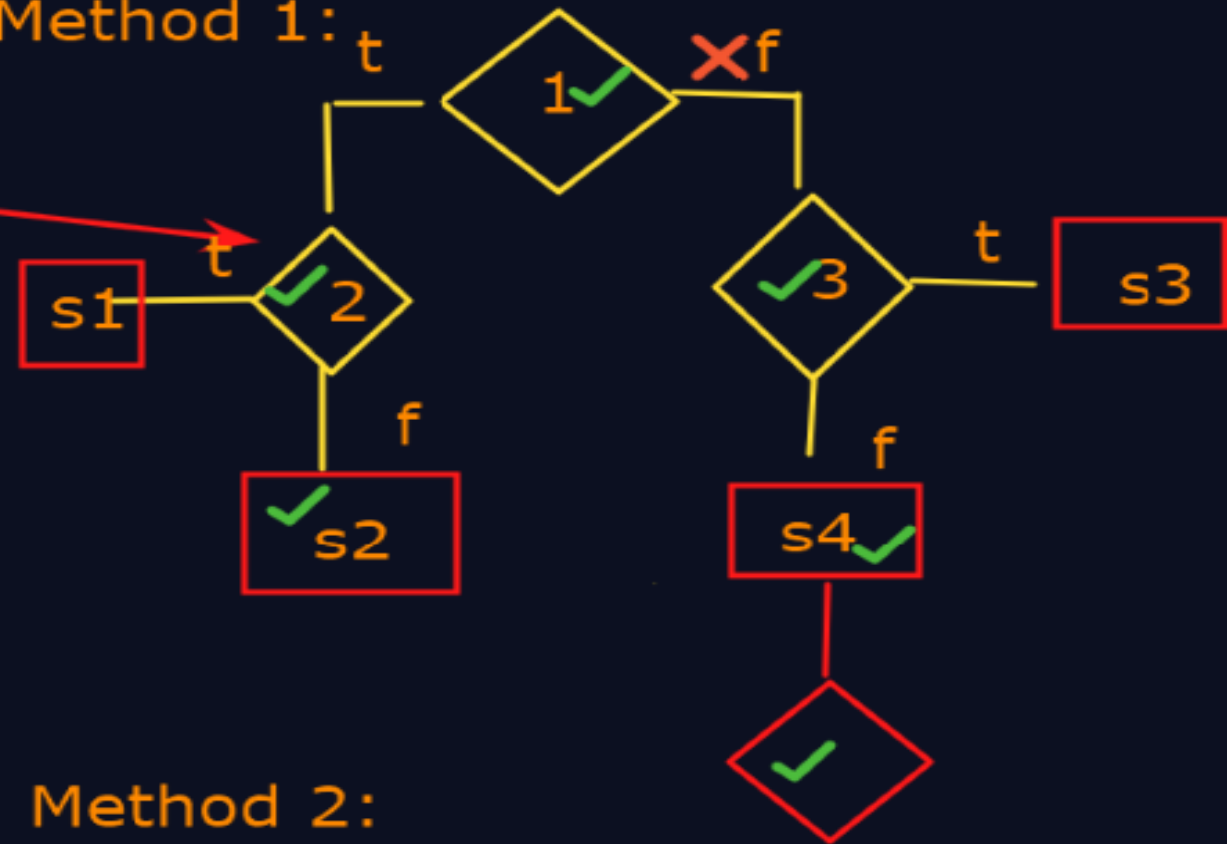
```
else  
{  
    //False state code  
    if (cond)  
    {  
        //True state code  
    }  
    else  
    {  
        //False state code  
    }  
}
```



```
if (cond)  
{  
    //True state code  
    if (cond)  
    {  
        //True state code  
    }  
    else  
    {  
        //False state code  
    }  
}
```

```
else  
{  
    //False state code  
    if (cond)  
    {  
        //True state code  
    }  
    else  
    {  
        //False state code  
    }  
}
```

Method 1:



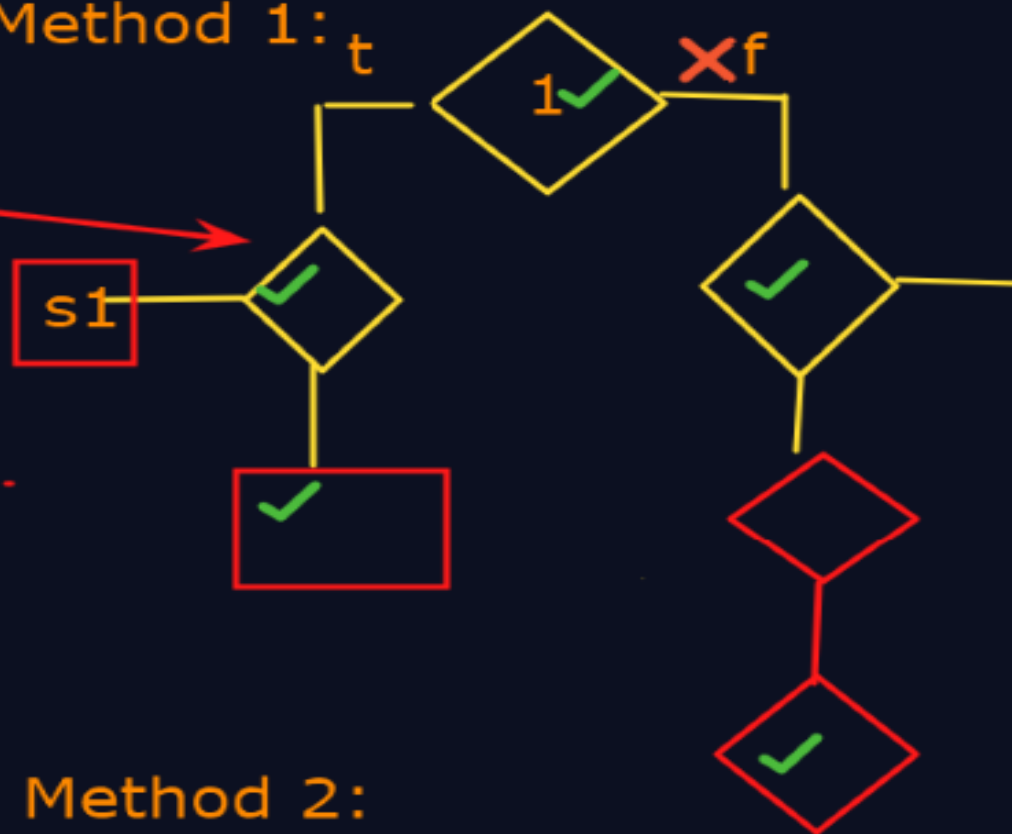
Method 2:



7 days : M ,T, W,Th, F, S Sun

```
if (cond)  
{  
    //True state code  
    if (cond)  
    {  
        //True state code  
    }  
    else  
    {  
        //False state code  
    }  
}  
else  
{  
    //False state code  
    if (cond)  
    {  
        //True state code  
    }  
    else  
    {  
        //False state code  
    }  
}
```

Method 1:



Method 2:



7 days : M ,T, W,Th, F, S Sun

```
if (cond)
```

```
{
```

```
    //True state code
```

```
    if (cond)
```

```
    {
```

```
        //True state code
```

```
    }
```

```
}
```

```
else
```

```
{
```

```
    //False state code
```

```
    if (cond)
```

```
    {
```

```
        //True state code
```

```
    }
```

```
    else
```

```
    {
```

```
        //False state code
```

```
    }
```

```
}
```

```
int day=1; ✓
String DayName;
switch(day){
    ✓ case 1:
        System.out.println("Today is Monday.")
        //break;
    case 2:
        System.out.println("Today is Tuesday.")
        //break;
    case 3:
        System.out.println("Today is Wednesday")
        break; ✓
    case 4:
        DayName="Today is Thursday.";
        //break;
    case 5:
        DayName="Today is Friday.";
        //break;
    case 6:
        DayName="Today is Saturday.";
        //break;
    case 7:
        DayName="Today is Sunday.";
        //break;
    default:
        DayName="Invalid Day";
        //break;
```

```
C:\Test>java SwitchCase2
Day is Today is Friday.
```

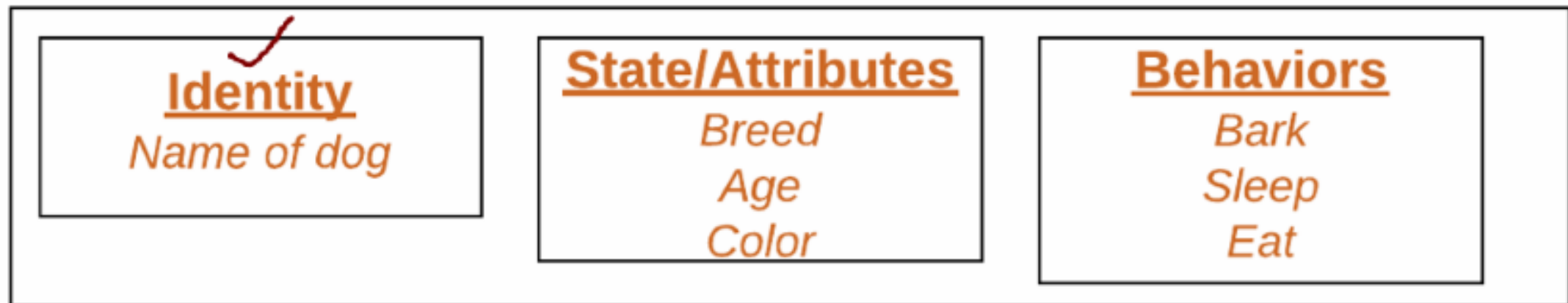
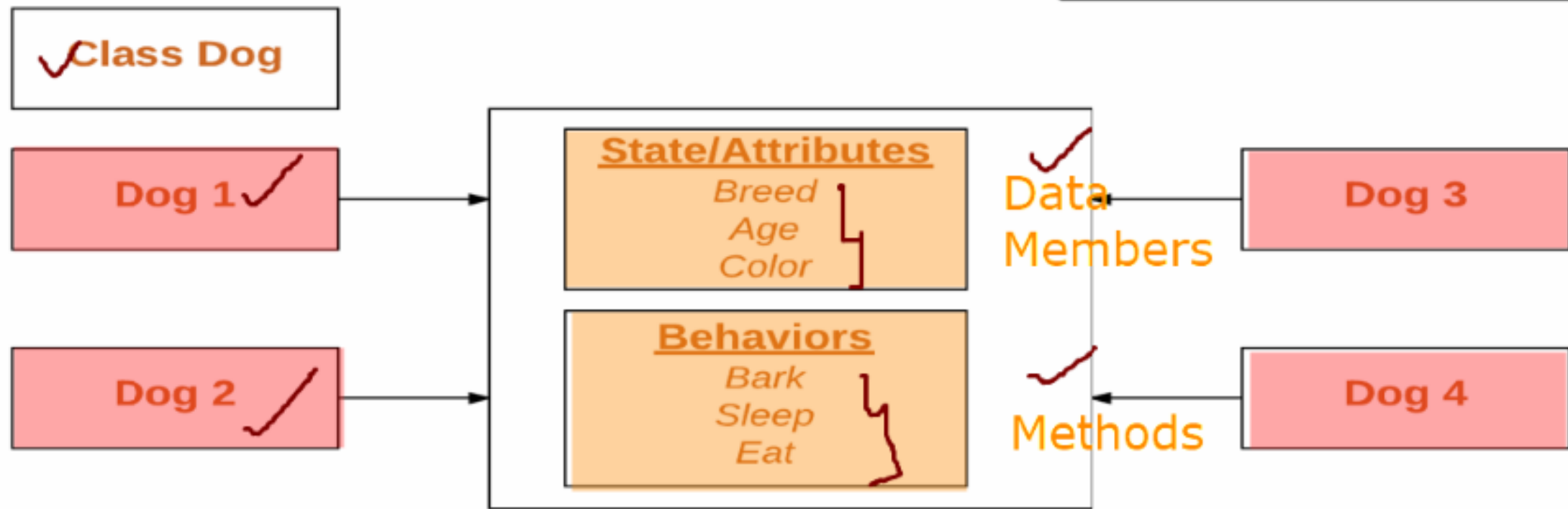
```
C:\Test>javac SwitchCase2.java
SwitchCase2.java:35: error: variable DayName is already defined in method
    System.out.println("Day is
```

```
1 error
```

```
C:\Test>javac SwitchCase2.java
```

```
C:\Test>java SwitchCase2
Today is Monday. ✓
Today is Tuesday. ✓
Today is Wednesday. ✓
```

```
C:\Test>
```

-runtime entity
-3 characteristics:
 1.State:data value
 2.Behavior:functionality
 3.Identity:id, unique no.
-An object is an instance of class.

Syntax:

```
Classname objectname = new Classname();
```

User defined class:

```
-----  
Employee emp1 = new Employee();  
Employee emp2 = new Employee();
```

Inbuilt class:

```
-----  
import java.util.Scanner;  
Scanner sc = new Scanner();
```

