

# Computer Programming – CS 6011

## Lecture 23: Wrap Up

MASTER OF SOFTWARE DEVELOPMENT (MSD) PROGRAM

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# Miscellaneous

- ▶ Questions?
- ▶ Did you verify that all past labs/assignments have grades on the class Canvas page?



# Lecture 23 – Topics

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▶ Wrap Up



# Enumerated Types

▶ `enum PizzaStatus { Ordered, Cooking, Ready, Out, Delivered }`

▶ Example of using an enum:

```
boolean withDriver;  
boolean inOven;
```

```
public PizzaStatus getStatus() {  
    if( withDriver ) { return PizzaStatus.Out; }  
    else if( inOven ) { return PizzaStatus.Cooking; }  
    // ...  
}
```



# Enumerated Type Example

```
enum Direction { EAST(0), WEST(180),  
                NORTH(90), SOUTH(270);  
  
    // internal state  
    private int angle;  
  
    // constructor  
    private Direction( final int angle ) {  
        this.angle = angle;  
    }  
  
    // public methods...  
    public int getAngle() { return angle; }  
}
```

► ordinal() – Order of enum among list of constants:

Direction.WEST.ordinal() // 1



# Switch Statement

```
int iteration = 4;
switch( iteration ) {
    case 1:
        System.out.println( "Just started" );
        status = PizzaStatus.Ordered;
        break; // Leave the switch
    case 2:
        System.out.println( "or round 2" );
        break;
    case 3:
        System.out.println( "Almost done." );
        break;
    default: // If none of the above cases are true... (The "else")
        System.out.println( "Taking longer than expected." );
}
```

► More compact if / else if / else if / else if / else...



# Switch Statement – Alternate Syntax

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```
PizzaStatus status = // some value;
```

```
// Used when assigning a value to a variable from multiple options.
```

```
String customerNote =
```

```
    switch( status ) {
```

```
        case Ordered -> "Your pizza has been ordered.";
```

```
        case Cooking -> "Your pizza is being lovingly cooked";
```

```
        case Ready -> "Your pizza is out of the oven.";
```

```
        case Out -> "Your pizza will be there soon!";
```

```
        case Delivered -> "Your pizza has arrived";
```

```
    };
```



# Grades

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- ▶ Final Class Grade
  - ▶ Heavily weighted toward assignments
  - ▶ Final grade will be posted over the next week or so – if you have questions, don't hesitate to come speak with me.
- ▶ Midterm
  - ▶ Planned 10 point curve – Median score 87%
  - ▶ Do you have any questions about any questions on the midterm?



# Thursday Assignments

- ▶ Finish up Android Chat Client
- ▶ [Add your room to Adventure 2023]



~ Fin ~