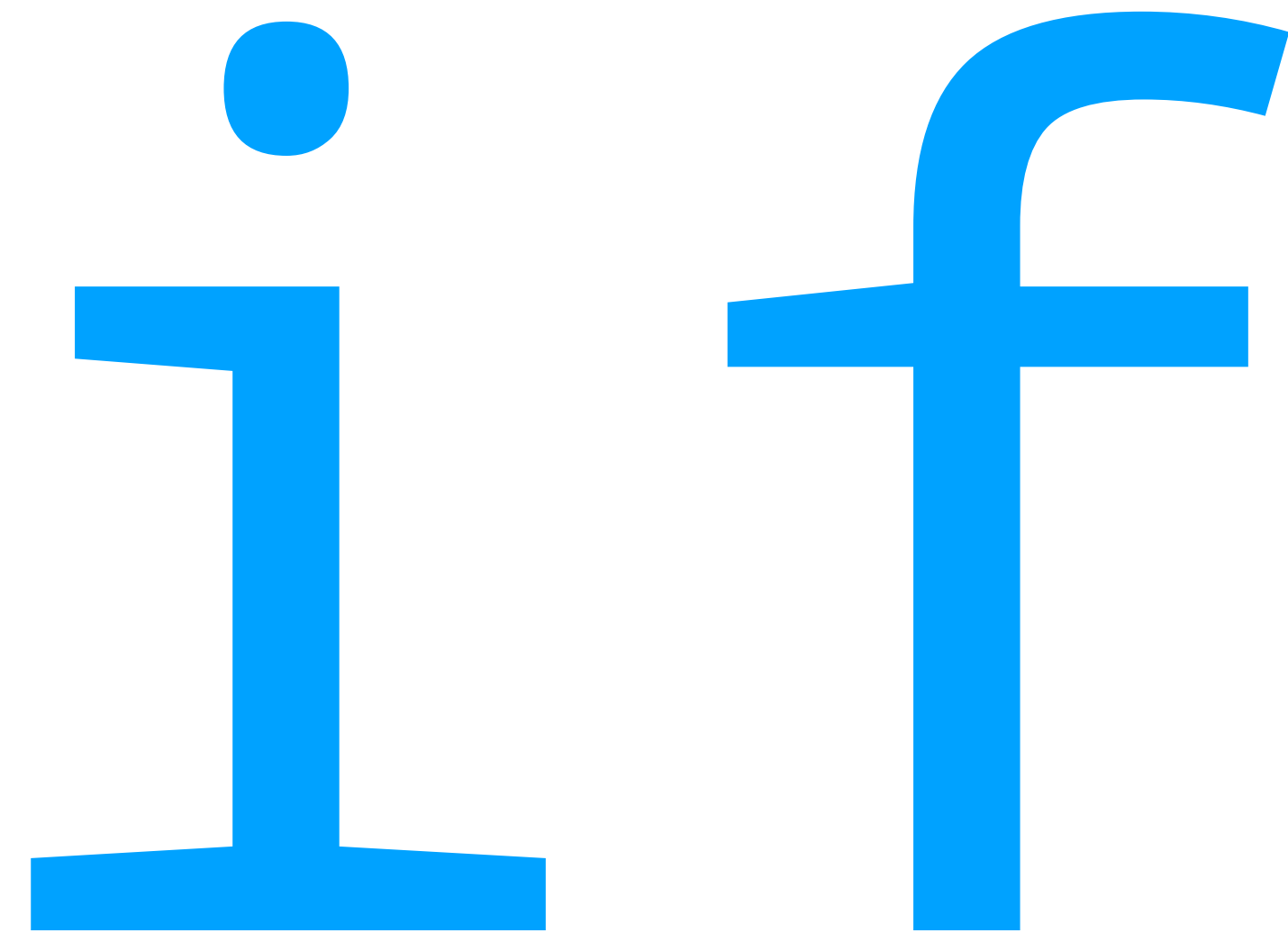


Essential Computing 1

Conditionals



If

```
if( true ){  
    // then execute code here  
}
```

If

```
if( false ){  
    // don't execute code here  
}
```

If else

```
if( false ){  
    // don't execute code here  
} else {  
    // instead, execute code here  
}
```

If else

```
if( true ){  
    // execute code here  
} else {  
    // don't execute code here.  
}
```

Else if chaining

```
double value = Math.random();
if( value < 0.33 ){
    // Code
} else if( value < 0.66 ) {
    // Code
} else {
    // Code
}
```

If else nesting

Does same as previous example

```
double value = Math.random();
if( value < 0.33 ){
    // Code
} else {
    if( value < 0.66 ) {
        // Code
    } else {
        // Code
    }
}
```

single line statements don't need **curly bracket**

```
double value = Math.random();  
if( value < 0.33 ){  
    doA();  
} else {  
    doB();  
}
```

```
double value = Math.random();  
if( value < 0.33 ) doA();  
else doB();
```


single line statements don't need **curly bracket**

```
double value = Math.random();  
if( value < 0.33 ){  
    doA();  
} else if( value < 0.66){  
    doB();  
} else {  
    doC();  
}
```

```
double value = Math.random();  
if( value < 0.33 ) doA();  
else if( value < 0.66 ) doB();  
else doC();
```

there is no limit to **if else** chaining

```
double value = Math.random();  
if( value < 0.33 ){  
    doA();  
} else if( value < 0.66 ){  
    doB();  
} else if( value < 0.95 ){  
    doC();  
} else {  
    doD();  
}
```

```
double value = Math.random();  
if( value < 0.33 ) doA();  
else if( value < 0.66 ) doB();  
else if( value < 0.95 ) doC();  
else doD();
```