

## If Statements

- An if statement is a conditional piece of code that checks if an argument is true based on Boolean values (true or false). If statements often include variables, double equal signs, and else statements.
- If/else statements are a little more complex. These statements execute one code block if the statement is true. If it is false, a different block of code is executed (the else clause).

- ```
public int num1 = 2;

public int num2 = 7;

public int answer = (num1 + num2);

void Start () {

    if(num1 + num2 == answer) {

        print("9");

    }

}
```

- Booleans in code are a type of data. They have two values, either true or false. Boolean values are used a lot in if statements because they check truth.

- ```
public Text input;

public string username = "myName";

myName = Console.ReadLine();

void Update () {

    if(input.text == username) {

        print("Hello" myName);

    }

}
```

```
}
```

- `public string alphabet = "what is the alphabet?";`

```
public Text input;
```

```
void Update () {
```

```
    if(input.text == "abcdefghijklmnopqrstuvwxyz") {
```

```
        print("Wow you know the alphabet");
```

```
    }
```

```
}
```

- `public int = 3;`

```
public Text input;
```

```
public string command = "Type 3"
```

```
void Update () {
```

```
    if(text.input == "3") {
```

```
        print("that was easy");
```

```
    }
```

```
    else
```

```
    {
```

```
        print("you are dumb lol");
```

```
    }
```

```
}
```

- When an if statement checks code, and the code is false, nothing will happen. If there is an else clause, then C# will execute the code block assigned the false value.

- `public int = 10;`

```
void Start () {  
    if(int == 10) {  
        print("10");  
    }  
    else  
    {  
        print("the world will now explode");  
    }  
}
```

- The double equal sign compares whatever is on the right of the sign to the operator on the left of the sign (checks if they are comparatively equal).

- public bool sun = true;

```
public Text input;
```

```
public string question = "the sun exists: true or false"
```

```
void Update () {  
    if(text.input == "true") {  
        print("you get an A+");  
    }  
    else  
    {  
        print("we have much to discuss");  
    }  
}
```

