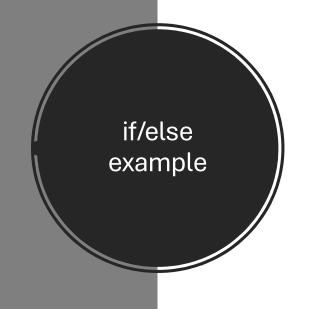


```
if condition:
    do this
else:
    do this
```

Control Statements

- Conditional Statements:
 - Execute a block of code based on the outcome of a certain condition



```
water_level = 50
if water_level > 80:
    print("Drain water")
else:
    print("Continue")
```

Relational Operators

- Used for comparison
 - > (Greater than)
 - < (Less than)</p>
 - >= (Greater than or equal to)
 - <= (Less than or equal to)
 - != (Not Equal to)
 - == (Equal to)

Interactive coding task

• Write a code that, if the height of a person is 120cm or greater than 120 cm they can ride the roller coaster, otherwise suggest them to grow taller then they can ride

Interactive coding task

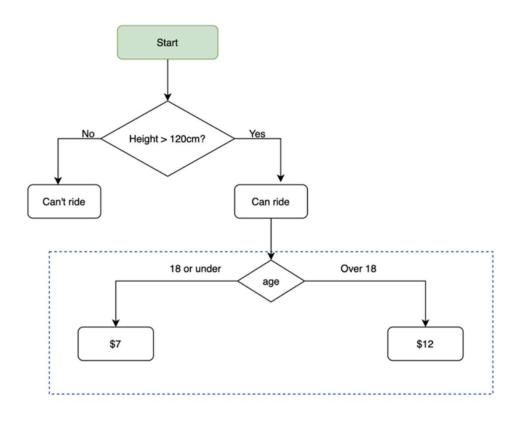
 Write down the code to determine whether an input number is even or odd

Another condition to check

Nested If/else

```
if condition:
    if another condition:
        do this
    else:
        do this
else:
    do this
```

Challenge



Moving to If/elif for multiple outcomes

```
# elif example
price = 10000 # there should be some int value
if price > 5000:
    print("That's too expensive!")
elif price > 500:
    print("I can afford that!")
else:
    print("That's too cheap!")
```

BMI 2.0

Take Height and Weight of user as Input, calculate BMI

If BMI is below 18.5 they are underweight

If BMI is above 18.5 but below 25, they have a normal weight

If BMI is above 25 but below 30, they are slightly overweight

Over 30 but below 35 Obese

Above 35 clinically Obese

Get Rid of Nested If with Logical Operators

```
if condition1 & condition2 & condition3:
   do this
else:
   do this
```

Logical Operartors

- Combine multiple conditions
 - and
 - or
 - not