Lesson 1 Array operations

# Broadcast

**A STRING ARRAY. AN ARRAY IS AN INDEXED LIST OF VALUES**

movieList = ["Rush", "Star Wars", "Pacific Rim", "Machete Kills"]

print( movieList )

**ACCESSING ELEMENTS OF AN ARRAY**

print( movieList[0] ) 0 is called the index

print( movieList[1] ) 1 is the index

print( movieList[2] )

print( movieList[3] )

print( movieList[4] ) problem!

**HOW BIG IS AN ARRAY? USE THE len() FUNCTION**

print( len(movieList) )

print( len(marks) )

print( marks[6] )

**CAN YOU CHANGE THE VALUES OF AN ARRAY?**

movieList [3] = “Superman XII”

print(movieList)

**CAN YOU ADD NEW ITEMS TO AN ARRAY? YES! USE THE .append() FUNCTION**

movieList.append( “Twilight 6: They All Die”)

print(movieList)

teachers = []

teachers.append( “Mr. Schattman”)

print(teachers)

teachers.append( “Ms. Berry”)

print(teachers)

**TO PROCESS AN ARRY, USE A FOR-LOOP. THE LOOPING VARIABLE WILL BE THE INDEX**

ratings = [“\*\*\*”, “\*\*”, “\*\*\*\*”, “\*”, “NO STARS”]

for i in range(0, 5):

print( movieList[i] + “ was rated “ + ratings[i] )

**AN INTEGER ARRAY**

marks = [90, 77, 40, 91, 77, 65, 100]

**RAISE THE 3RD MARK BY 10 POINTS**

marks[2] = marks[2] + 10

print( marks )

**RAISE ALL THE MARKS BY 10 POINTS**

for i in range(0, len(marks) ):

marks[i] = marks[i] + 10

print( marks )

**WHICH INDEX IS "STAR WARS"?**

i = movieList.index( "Star Wars" )

print( “Star Wars is at index “ + str( i ) )

**HOW TO ENTER AN ARRAY FROM THE KEYBOARD (needed for exercise #3)**

xValues = []

newX = int(input(“Enter an x-value: “))

xValues.append( newX )

print(xValues)

Can you enter a bunch of values using a loop?