

## 4.1 Assignment: If Statement Program

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Date: 12/30/2018

DSC510 4.1 Assignment: If Statement Program

This week we will implement "if statements" in a program. Your program will calculate the cost of fiber optic cable installation by multiplying the number of feet needed by .87. *We will also evaluate a bulk discount. You will prompt the user for the number of fiber optic cable, calculate the total expense. If the user purchases more than 100 feet they are charged .80 per foot. If the user purchases more than 250 feet they will be charged .70 per foot. If they purchase more than 500 feet they will be charged \$.50 per foot.*

Display a welcome message for your program.

Get the company name from the user

Get the number of feet of fiber optic cable to be installed from the user

Evaluate the total cost based upon the number of feet requested.

Display the calculated information including the number of feet requested and company name.

### Display a welcome message for your program

```
In [17]: print("HELLO and WELCOME to Bellevue Fiber Optic Supply!")
```

```
HELLO and WELCOME to Bellevue Fiber Optic Supply!
```

### Get the company name from the user

```
In [18]: companyName = input("What is your company name?\n")
```

```
What is your company name?  
Walmart
```

### Get the number of feet of fiber optic cable to be installed from the user

```
In [19]: feetNeeded = int(input("How many feet of fiber optic cable do you need to install?"))
```

```
How many feet of fiber optic cable do you need to install?  
181
```

### Evaluate the total cost based upon the number of feet requested

```
In [20]: if feetNeeded > 500:
          priceFoot = 0.50
        elif feetNeeded > 250:
          priceFoot = 0.70
        elif feetNeeded > 100:
          priceFoot = 0.80
        else:
          priceFoot = 0.87

totalCost = feetNeeded * priceFoot

# Check math
print("Feet Needed: " + str(feetNeeded))
print("Price per foot: " + str(priceFoot))
print("Total Cost: " + str(totalCost))
```

Feet Needed: 181  
Price per foot: 0.8  
Total Cost: 144.8

**Display the calculated information including the number of feet requested and company name**

```
In [23]: print("Bellevue Fiber Optic Supply would like to thank you for your purchase! \n\n")
          print("Purchaser: " + str(companyName))
          print("Feet Needed: " + str(feetNeeded) + " ft")
          print("Price per foot: $" + str(priceFoot))
          print("Total Cost: $" + str(totalCost))
```

Bellevue Fiber Optic Supply would like to thank you for your purchase!

Receipt  
Purchaser: Walmart  
Feet Needed: 181 ft  
Price per foot: \$0.8  
Total Cost: \$144.8