

Requirements for each project

- ✓ Project starts with the following lines of comments.

```
# Ally Baba  
# September 1 2021  
# Project #1  
# COSC 1336(TTh)  
# -----  
# Project Description  
# This program converts feet to inches. The user will  
# enter the feet and the conversion rate. The  
# program will display the feet and inches  
# -----
```

- ✓ Need to have main() and def main() in the project

```
def main():  
    print('This program converts feet to inches.')  
    #statements
```

- ✓ Variable names used: (see the style – camelback)

```
feetValue  
inchesValue  
conversionRate
```

- ✓ if statement:

- if (average >= 90):
 - # the condition is wrapped inside ()

- ✓ while statement:

- while (count <= 10):
 - #condition is wrapped inside ()

- ✓ Trace the code below:

```
# Ally Baba
# September 1 2021
# Project #1
# COSC 1336(TTh)
#
# -----
# Project Description
# Program that will convert feet to inches.
# The user enters data: feet and conversion rate.
# The program display the feet and corresponding inches
#
# -----
def main():
    # Information Section
    print('This function will convert feet to inches')

    # Gets input from users
    feetValue = getData('Enter the feet value ')
    conversionRate = getData('Enter the conversion reate from feet to inches: ')

    # Calls the function to convert feet to inches
    inchesValue = findConversion(feetValue, conversionRate)

    # Display the results to the users
    displayResults(feetValue, inchesValue)

# Function displays the results to the users
def displayResults(feet, inches):
    print('\nResult')
    print(feet, 'feet is equal to', format(inches, '.2f'), 'inches')

# Function performs the calculation that converts feet to inches
def findConversion(feet, inches):
    conversion = feet * inches
    return conversion

# Function receives user input
def getData(prompt):
    value = float(input(prompt))
    return value

main()
```