Python Assignment 1 Ria Thapa 1212086

Q1. Sample code:

```
A Assignment1 Version control V
Project ~
                                                               quadraticFunctions.py ×
                                                                                        principalCalculation.py
                                                                                                                  monthlyPayme

➤ Assignment1 ~/Python class/Python/Assignment1
80
        venv
                                                                      def compute_quadratic_roots(a, b, c) : 1 usage
                                                                          denominator = 2*a
                                                                          numeratorPart1 = (-1) * b
            .gitignore
                                                                          numeratorPart2 = (b*b) - (4*a*c)
            ፱ pyvenv.cfg
                                                                          numeratorPart2 = math.sqrt(numeratorPart2)
          areaOfCircle.py
                                                                          root1 = (numeratorPart1 + numeratorPart2)/denominator
          averageCalculator.py
                                                                          root2 = (numeratorPart1 - numeratorPart2)/denominator
          eToF.py
                                                                          print("Roots are :: ", root1, ", ", root2)
          ntoc.py
          monthlyPaymentFormula.py
                                                                      b = float(input("Coefficient 2 :: "))
          principalCalculation.py
                                                                      c♀ float(input("Coefficient 3 :: "))
          quadraticFunctions.py
                                                                      compute_quadratic_roots(a,b,c)
          volumeOfCylinder.py
     > 

Scratches and Consoles
```

Output:

Q2. Sample code:

Output:

```
Run principalCalculation × : -

| Column | First | Fir
```

Q3. Sample code:

```
A Assignment1 >
                            Version control ~
                                                                 quadraticFunctions.py
                                                                                           monthlyPayment.py ×
     Project ~
                                                                        def computeMonthlyPayment(amt, rate, months): 1usage

➤ □ Assignment1 ~/Python class/Python/Assignment1
80
                                                                            term1 = (1 + (rate/1200))**months

✓ □ .venv

                                                                            numerator = rate*term1
                                                                            denominator = (1200*term1)-1
                                                                            finalTerm = numerator/denominator
             .gitignore
                                                                            monthlyPayment = finalTerm*amt

    □ pyvenv.cfg
                                                                            print("Monthly Payment :: ", monthlyPayment)
          areaOfCircle.py
          Assignment1_1212086.pages
                                                                        amt = float(input("Enter amount :: "))
          averageCalculator.py
                                                                        rate = float(input("Rate :: "))
          🔷 cToF.py
                                                                        computeMonthlyPayment(amt, rate, months)
          🔁 fToc.py
          nonthlyPayment.py
          nonthlyPaymentFormula.py
          principalCalculation.py
          quadraticFunctions.py
          volumeOfCylinder.py
     > Scratches and Consoles
```

Output:

```
Run monthlyPayment ×

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Q4. Sample code:

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A Assignment1 Version control
                                                                                         principalCalculation.py
                                                                 adraticFunctions.py
                                                                                                                      monthlyPaymentFormula.py
                                                                                                                                                         averageCalculator.py ×
                                                                          def calculateAverage(list1): 1 usage
                                                                                                                                                                                              @
✓ ■ Assignment1 ~/Python class/Python/Assig
                                                                               lowerNumber = list1[0]
                                                                                                                                                                                              > 🗀 lib
       ② .gitignore
                                                                                      lowerNumber = list1[i]
       囯 pyvenv.cfg
    averageCalculator.py
     monthlyPaymentFormula.py
                                                                                  if(list1[i] > higherNumber)
     principalCalculation.py
                                                                                      higherNumber = list1[i]
     duadraticFunctions.py
                                                                              print("Higher Number :: ", higherNumber)
print("Lower Number :: ", lowerNumber)
> (1) External Libraries
> 
Scratches and Consoles
                                                                               print("Average :: ", (higherNumber + lowerNumber) / 2)
                                                                          lest1 = [21, 43, 554, 76, 68, 43, 0] calculateAverage(list1)
```

Output:

Q5. Sample code:

```
● ● ■ Assignment1 ∨ Version control
□ Project ∨
                                                                                                        monthlyPaymentFormula.py
                                                                                                                                          averageCalculator.py
                                                                                                                                                                     🕏 cToF.py ×
                                                                             principalCalculation.py
                                                                             def calculateFahrenheit(degree): 1usage
print("Fahrenheit temperature :: ", (9/5)*degree + 32)
        ■ Assignment1 ~/Python class/Python/Assignment1

∨ □ .venv

                                                                              degree = float(input("Temperature in Celsius: "))
             .gitignore
             囯 pyvenv.cfg
          averageCalculator.py
           ? cToF.py
           monthlyPaymentFormula.py
           principalCalculation.py
           quadraticFunctions.py
      > 
    External Libraries
      > Properties and Consoles
```

Output:

```
Run CTOF X

S : -

S : -

Run CTOF X

Run CTOF X

S : -

Run CTOF X

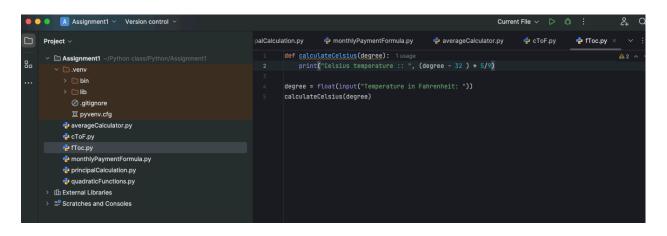
Run CTOF X

Run CTOF X

Run CTOF X

Run
```

Q6. Sample code:



Output:

```
Run fToc ×

| Comparison | Float | Flo
```

Q7. Sample code:

```
■ ● ■ Assignment1 ∨ Version control ∨
□ Project ∨
                                                                  monthlyPaymentFormula.py
                                                                                                averageCalculator.py
                                                                                                                          cToF.py
                                                                          def calculateRadius(radius): 1 usage

✓ ☐ Assignment1 ~/Python class/Python/Assignment1
80
                                                                              print("Area of Circle:: ", 3.14*radius*radius)

∨ □ .venv

           > 🗀 bin
                                                                          radius = float(input("Enter the radius of the circle: "))
                                                                          calculateRadius(radius)
             .gitignore

    □ pyvenv.cfg
           areaOfCircle.py
           averageCalculator.py
           cToF.py
           🔁 fToc.py
           monthlyPaymentFormula.py
           principalCalculation.py
           quadraticFunctions.py
      > del External Libraries
      > 

Scratches and Consoles
```

Output:

Q8. Sample code:

```
Assignment1 Version control
                                                                                                                                Current File ∨ ▷ ☆ :
☐ Project ∨
                                                                  averageCalculator.pv
                                                                                          va.Foro 👙
                                                                                                         da.pot
                                                                                                                       areaOfCircle.pv
                                                                                                                                         volumeOfCylinder.py
                                                                      def calculateVolume(diameter, height): 1 usage

➤ Assignment1 ~/Python class/Python/Assignment1
80
                                                                          print("Volume of Cylinder :: ", 3.14*((diameter*diameter)/4)*height)
                                                                      diameter = float(input("Enter the diameter of the cylinder: "))
            .gitignore
            囯 pyvenv.cfg
                                                                      calculateVolume(diameter, height)
          areaOfCircle.py
          averageCalculator.py
          е сТоҒ.ру
          🔁 fToc.py
          nonthlyPaymentFormula.py
          principalCalculation.py
          quadraticFunctions.py
          volumeOfCylinder.py
      > fili External Libraries
       Scratches and Consoles
```

Output:

