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| **Program 01** |
| **Output** |
| >>>  ======= RESTART: /Users/biniamlemma/Desktop/CSCI\_2061/Assn\_04/part1.py =======  \*\*\*\*\*\*\*\*\*\*\*\*\*\* Payroll Program \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* Data Input \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  Please enter the number of employees: 3  Enter the employee name: Ann Annson  Enter the employee wage rate: $8.50  Enter the employee hours: 35  Enter the employee name: Bill Billson  Enter the employee wage rate: $12.50  Enter the employee hours: 42  Enter the employee name: Carol Carolson  Enter the employee wage rate: $22.50  Enter the employee hours: 39  \*\*\*\*\*\*\*\*\*\*\*\*\*\* Payroll Data \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  Employee: Ann Annson  Hours: 35.0  Rate: $8.5/hr  Wage: $297.5  Employee: Bill Billson  Hours: 42.0  Rate: $12.5/hr  Wage: $525.0  Employee: Carol Carolson  Hours: 39.0  Rate: $22.5/hr  Wage: $877.5  >>> |
| **Source Code** |
| #Assn4\_part1, Biniam Lemma, 09/15/16  #This payroll program calculates employees' wage and display  def main():  print("\*\*\*\*\*\*\*\*\*\*\*\*\*\* Payroll Program \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\n")  print("\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* Data Input \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*")  x = input("Please enter the number of employees: ")  x = int(x)  y = 0  #initalize the array list to null  name = []  hours = []  wageRate = []  wage = []  y = 0  #while loop to input name, wagerate and hours  while y < x:  print('')  name.append(input("Enter the employee name: "))  wageRate.append(float(input("Enter the employee wage rate: $")))  hours.append(float(input("Enter the employee hours: ")))  y += 1  y = 0  #calculate the wage  while y < x:  wage.append(wageRate[y] \* hours[y])  y += 1  #output the payrool Data  print("\n\*\*\*\*\*\*\*\*\*\*\*\*\*\* Payroll Data \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*")  y = 0  while y < x:  print("Employee:", name[y])  print("\tHours:", hours[y])  print("\tRate: ${}/hr".format(wageRate[y]))  print("\tWage: ${}\n".format(wage[y]))  y += 1    if \_\_name\_\_ == "\_\_main\_\_":  main() |

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| **Program 02** |
| **Output** |
| >>>  ======= RESTART: /Users/biniamlemma/Desktop/CSCI\_2061/Assn\_04/part2.py =======  \*\*\*\*\*\*\*\*\*\*\*\* Calculator Program \*\*\*\*\*\*\*\*\*\*\*\*  1. Add  2. Subtract  3. Multiply  4. Divide  5. Quit  Enter your choice: 1  Enter a number: 5  Enter another number: 3  The sum of 5.0 and 3.0 is 8.0  1. Add  2. Subtract  3. Multiply  4. Divide  5. Quit  Enter your choice: 2  Enter a number: 5  Enter another number: 3  The Difference of 5.0 and 3.0 is 2.0  1. Add  2. Subtract  3. Multiply  4. Divide  5. Quit  Enter your choice: 3  Enter a number: 5  Enter another number: 3  The Product of 5.0 and 3.0 is 15.0  1. Add  2. Subtract  3. Multiply  4. Divide  5. Quit  Enter your choice: 4  Enter a number: 10  Enter another number: 2  The Quotient of 10.0 and 2.0 is 5.0  1. Add  2. Subtract  3. Multiply  4. Divide  5. Quit  Enter your choice: 7  You should choice should be a number between 1 and 5  1. Add  2. Subtract  3. Multiply  4. Divide  5. Quit  Enter your choice: 5  >>> |
| **Source Code** |
| #Assn04\_part2, Biniam Lemma  #This program ask the user to enter numbers and do operations  #including add, subtraction, multiplication and division.  def main():  print("\*\*\*\*\*\*\*\*\*\*\*\* Calculator Program \*\*\*\*\*\*\*\*\*\*\*\*")  #a wile loop to print the menu and to process the calculation.  while (1):  print('''  1. Add  2. Subtract  3. Multiply  4. Divide  5. Quit\n''')  x = int(input("Enter your choice: "))    if x == 5:  break  #input validation  if x > 5 or x < 1:  print("You should choice should be a number between 1 and 5")  continue  #input the numbers  a = float(input("Enter a number: "))  b = float(input("Enter another number: "))  if x == 1:  addNum(a, b)  elif x == 2:  subtractNum(a, b)  elif x == 3:  multiplyNum(a, b)  elif x == 4:  divideNum(a, b)        #this function add two numbers  def addNum(a, b):  print("The sum of {} and {} is".format(a, b), (a + b))  #this function subtract numbers  def subtractNum(a, b):  print("The Difference of {} and {} is".format(a, b), (a - b))  #this function multiply two numbers  def multiplyNum(a, b):  print("The Product of {} and {} is".format(a, b), (a \* b))  #this function divide numbers  def divideNum(a, b):  print("The Quotient of {} and {} is".format(a, b), (a / b))  if \_\_name\_\_ == "\_\_main\_\_":  main() |

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| **Program 03** |
| **Output** |
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| **Source Code** |
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| **Program 04** |
| **Output** |
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| **Source Code** |
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| **Program 05** |
| **Output** |
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| **Source Code** |
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