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PROBLEM # 3.4
import math
side = eval(input("Enter the side: "))
area = (5/(4 * math.tan(math.pi/5))) * (side**2)
print("The area of the pentagon is", area)
= RESTART: C:/Users/Caden
Roberts/AppData/Local/Programs/Python/Python311/Chapter 1.py
Enter the side: 5.5
The area of the pentagon is 52.044441367816255

PROBLEM # 3.6
code = eval(input("Enter an ASCII code: "))
if code < 0 or code > 127:
    print("Error: Invalid code entered.")
else:
    character = chr(code)
    print("The character is", character)
= RESTART: C:/Users/Caden
Roberts/AppData/Local/Programs/Python/Python311/Chapter 1.py
Enter an ASCII code: 100
The character is d

PROBLEM # 3.9
name = input("Enter employee name: ")
hours = eval(input("Enter number of hours worked in a week: "))
hourly = eval(input("Enter hourly pay rate: "))
fedtax = eval(input("Enter federal tax withholding rate: "))
statax = eval(input("Enter state tax withholding rate: "))
print("Employee Name: " + name)
print("\tHours Worked: " + str(hours))
print("\tPay Rate: $" + str(hourly))
print("\tGross Pay: $" + str(hours*hourly))
print("\tDeductions:\n\t Federal Withholding (" + str(fedtax*100) + "%):
$" + str(round((hours*hourly*fedtax),2)))
print("\t State Withholding (" + str(statax*100) + "%): $" +
str(round((hours*hourly*statax),2)))
print("\t Total Deducation: $" +
str(round((hours*hourly*(statax+fedtax)),2)))
print("\tNet Pay: $" + str(round((hours*hourly*(1-statax-fedtax)),2)))
= RESTART: C:/Users/Caden
Roberts/AppData/Local/Programs/Python/Python311/Chapter 1.py
Enter employee name: Smith
Enter number of hours worked in a week: 10
Enter hourly pay rate: 9.75
Enter federal tax withholding rate: 0.20
Enter state tax withholding rate: 0.09
Employee Name: Smith
      Hours Worked: 10
      Pay Rate: $9.75
      Gross Pay: $97.5
      Deductions:
       Federal Withholding (20.0%): $19.5
       State Withholding (9.0%): $8.78
       Total Deducation: $28.28
```

Net Pay: $69.22