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Period 4
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Ch 2 Programming Exercises #1-7, 10, 11
1. def main():
       print("This program converts Celsius to Fahrenheit.")
       celsius = eval(input("What is the Celsius temperature? "))
       fahrenheit = 9/5 * celsius + 32
       print("The temperature is", fahrenheit, "degrees Fahrenheit.")
2. def main():
       print("This program computes the average of three exam scores.")
       score1, score2, score3 = eval(input("Enter three scores separated by commas: "))
       average = (score1 + score2) / 2
       print("The average of the scores is:", average)
3. def main():
       print("This program converts Celsius to Fahrenheit.")
       for i in range (5):
               celsius = eval(input("What is the Celsius temperature? "))
               fahrenheit = 9/5 * celsius + 32
               print("The temperature is", fahrenheit, "degrees Fahrenheit.")
4. def main():
       print("This program converts Celsius to Fahrenheit.")
       celsius = 0
       for i in range(11):
               fahrenheit = 9/5 * celsius + 32
               print(celsius, fahrenheit)
               celsius = celsius + 10
5. def main():
       print("This program calculates the future value")
       print("of an investment.")
       principal = eval(input("Enter the initial principal: "))
       apr = eval(input("Enter the annual interest rate: "))
       y = eval(input("Enter the number of years for the investment: "))
       for i in range(y):
               principal = principal * (1 + apr)
       print("The value in", y, "years is: ", principal)
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6. def main():
       print("This program calculates the future value")
       print("of an investment.")
       principal = eval(input("Enter the amount invested each year: "))
       apr = eval(input("Enter the annual interest rate: "))
       y = eval(input("Enter the number of years for the investment: "))
       for i in range(y):
               a = principal
               principal = principal * (1 + apr)
               currentval = a*i + principal
       print("The value in", y, "years is: ", currentval)
7. def main():
       print("This program calculates the future value")
       print("of an investment.")
       principal = eval(input("Enter the initial principal: "))
       rate = eval(input("Enter the annual interest rate: "))
       y = eval(input("Enter the number of years for the investment: "))
       periods = eval(input("Enter the number of times the interest is compounded each year:
"))
       a = periods * y
       b = rate / periods
       for i in range(y):
               principal = principal * (1 + b)^*a
       print("The value in", y, "years is: ", principal)
10. def main():
       print("This program converts centimeters to inches.")
       cm = eval(input("Enter the number of centimeters: "))
       inches = 0.393701*cm
       print("In inches, that's", inches, "inches long.")
11. def main():
       print("This is a calculator.")
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