Homework for Lesson 3

5 points each

Do exercises from the book Lesson 3: 1, 2, 3, 4

1. In what variable type would you best store the following values?
   1. A person's age to the nearest year. unsigned int
   2. The number of Facebook friends a person has. unsigned int
   3. The radius of a circle. float
   4. Your annual salary. unsigned long
   5. The cost of an item float
   6. The highest grade on a test (assume it is always 100). const short
   7. A person's first initial. unsigned char
   8. The temperature. float
   9. A person's net worth. long
   10. The distance to a star in miles. long double
2. Determine appropriate variable names for the values in exercise 1.
   1. ageYears
   2. numFriends
   3. radius
   4. salary
   5. price
   6. maxScore
   7. firstInitial
   8. temperature
   9. netWorth
   10. distanceMiles
3. Write declarations for the variables in exercise 2.
   1. unsigned int ageYears = 18;
   2. unsigned int numFriends = 143;
   3. float radius = 5.12;
   4. unsigned long salary = 100000;
   5. float price = 8.99;
   6. const short maxScore = 100;
   7. unsigned char firstInitial = ‘J’;
   8. float temperature = 101.4; // too hot
   9. long netWorth = 748800;
   10. long double distanceMiles = 92955807.24817;
4. Which of the following variable names are valid?
   1. 123variable Not Valid
   2. x Valid
   3. total\_score Valid
   4. Weight\_in\_#s Not Valid
   5. one Valid
   6. gross-cost Not Valid
   7. RADIUS Valid
   8. Radius Valid
   9. radius Valid
   10. this\_is\_a\_variable\_to\_hold\_the\_width\_of\_a\_box Valid