1: Programs on the Basic Concepts of Python

- Program 1 -There are 5280 feet in a mile. Write a Python statement that calculates and prints the number of feet in 13 miles.
- Program 2 Write a Python statement that calculates and prints the number of seconds in 7 hours, 21 minutes and 37 seconds.
- Program 3 The perimeter of a rectangle is 2w+2h, where w and h are the lengths of its sides. Write a Python statement that calculates and prints the length in inches of the perimeter of a rectangle with sides of length 4 and 7 inches.
- Program 4 The circumference of a circle is $2\pi r$ where r is the radius of the circle. Write a Python statement that calculates and prints the circumference in inches of a circle whose radius is 8 inches. Assume that the constant π =3.14.
- Program 5 Given p dollars, the future value of this money when compounded yearly at a rate of r percent interest for y years is p(1+0.01r)y. Write a Python statement that calculates and prints the value of 1000 dollars compounded at 7 percent interest for 10 years.
- Program 6 -Write a Python expression that combines the string "Joe Warren is 52 years old." from the string "Joe Warren" and the number 52 and then prints the result (Hint: Use the function str to convert the number into a string.)
- Program 7 -Write a single Python statement that combines the three strings "My name is", "Joe" and "Warren" (plus a couple of other small strings) into one larger string "My name is Joe Warren." and prints the result.
- Program 8 The distance between two points (x0,y0) and (x1,y1) is (x0-x1)2+(y0-y1)2. Write a Python statement that calculates and prints the distance between the points (2,2) and (5,6).
- Program 9 Write a program to check whether a year is leap year or not.
- Program 10 Write a program to output the grade of student based on the percentage entered by the student.
- Program 11 Write a Python program to check whether an alphabet is a vowel or consonant.
- Program 12 Write a python function that receive one number and print it is even number or odd number.
- Program 13 Write a python program that receive 5 numbers by user and print sum and average of these numbers.
- Program 14 Write code that prints Hello if 1 is stored in spam, prints Howdy if 2 is stored in spam, and prints Greetings! if anything else is stored in spam.