



DATA SCIENCE COURSE



Python Basics Assignment

Week - 1

Python Basics Programs

1. Print Hello world!
2. Declare the following Variables:
int,float,Boolean,strings And print its value
3. Program to Calculate the Area of a Triangle
4. Program to Swap Two Variables.
5. Program to check if a Number is Positive, Negative or 0.
6. Program to check if a Number is odd or even.
7. Program to Print Odd Numbers Within a Given Range.
8. Program to Find the Factorial of a Number.
9. Program to Reverse a Given Number.
10. Program to Find the Sum of Natural Numbers.

Strings

*** Practice Python built in methods .Refer below link: <https://www.programiz.com/python-programming/methods/string>

1. Python Program to reverse a string
2. Program to check if string is palindrome
3. Program to replace all occurrence of "a" with "&" in a string.
4. Program to count the number of vowels in a string
5. Input two string and display the larger string without using builtin function
6. Count the number of digits and letter in a string
7. Count the number of lowercase character in a string
8. Python program to check if a substring is present in a given string
9. Practice String slicing:
Input string "google" .Use string slicing to print following output
'goo' , 'elg' , 'lgo' , 'ogl'

Strings

10. Input a string "hello" . Access the third element 'l' .Change 'l' to 'p' in the string.

Lists And Tuples

1. Python Program to Find the Largest Number in a List
2. Python Program to Put Even and Odd elements in a List into Two Different Lists
3. Python Program to Read a List of Words and Return the Length of the Longest One
4. Python Program to Create a List of Tuples with the First Element as the Number and Second Element as the Square of the Number
5. Python Program to Remove the Duplicate Items from a List.
6. Python Program to Read a List of Words and Return the Length of the Longest One

Dictionaries

1. Python Program to Check if a Given Key Exists in a Dictionary or Not
2. Python Program to Remove the Given Key from a Dictionary
3. Python Program to Sum All the Items in a Dictionary
4. Write a Python program to iterate over dictionaries using for loops
5. Write a Python program to remove a key from a dictionary
6. Write a Python program to sort a dictionary by key.