Python Assignment

variables and data types

1. write a program to print Hello.
2. write a program to print addition of two numbers.
3. write a program to calculate area of rectangle.
4. Write a program to calculate simple interest taking input from user.
5. Write a program to calculate the cube of entered number.
6. Write a program to take any employee details and display it.
7. Write a program to take a number from user decrement the value by 3

conditional statements

1. Write a program to find greater number between two entered numbers.
2. Write a program to find to entered numbers are equal or not?
3. Write a program to find the entered number is positive or negative.
4. Write a program to find the entered number is even or odd.
5. Write a program to find the entered character is vowel or not?
6. Write a program to print the days of the week according to the entered day number.
7. Write a program to perform arithmetic operations between two integer values according to the operator entered by user.

logical operators

1. Write a program to check entered character is vowel or not?
2. Write a program to print weekday if entered day number is 1,2,3,4,5 and print weekend if entered day is 6 or 7.and invalid day if value not between 1 to 7.
3. Write a program to find greatest among three numbers.
4. A candidate is recruited based on following criteria:
   If male, age should be above 30 yrs and height above 160.
   If female, age should be above 25yrs and height above 155.

While loop

1. Write a program to print values from 1 to 10.
2. Write a program to print values from 10 to 1.
3. Write a program to print values from 5 to 15.
4. Write a program to print values from 1 to entered number.
5. Write a program to print entered name n number of times.
6. Write a program to print the table of 5.
7. Write a program to print the table of entered number.
8. Write a program to print the values between two entered number.

For loop

1. Write a program to print the factorial of entered number.

2. Write a program to print sum of first five positive integer numbers.
3. Write a program to find entered number is prime or not.
4. Write a program to print all the even numbers between 1 to 20

Strings

1. Write a program to print your entered name in reverse order.
2. Write a program to print every third character of entered string.
3. Write a program to find the number of characters present in string without using len()
4. Write a program to print the number of vowels present in entered string.
5. Write a program to find a character present in string or not?if present in which index it is present .and how many times it is present.

List/Tuples

1. Write a program to print the sum of integer values present in list.
2. Write a program to find entered name is present in list of employees name or not.
3. Write a program that accepts a list from user and print the alternate element of list.
4. Write a program that accepts a list from user. Your program should reverse the content of list and display it. Do not use reverse() method.
5. Find and display the largest number of a list without using built-in function max(). Your program should ask the user to input values in list from keyboard.
6. Write a program that rotates the element of a list so that the element at the first index moves to the second index, the element in the second index moves to the third index, etc., and the element in the last index moves to the first index.
7. Write a program that input a string and ask user to delete a given word from a string.
8. Write a program with a function that accepts a string from keyboard and create a new string after converting character of each word capitalized. For instance, if the sentence is "stop and smell the roses." the output should be "Stop And Smell The Roses"

Dictionaries-

1. Write a Python script to check whether a given key already exists in a dictionary
2. Write a Python program to sum all the items in a dictionary.
3. Write a Python program to multiply all the items in a dictionary.
4. Write a Python program to sort a given dictionary by key.
5. Write a Python program to get the maximum and minimum value in a dictionary.

Functions

1. Write a Python function to find the Max of three numbers.
2. Write a Python function to sum all the numbers in a list.
3. Write a Python function to multiply all the numbers in a list.
4. Write a Python program to reverse a string.
5. Write a Python function to check whether a number falls in a given range.
6. Write a Python function that accepts a string and calculate the number of upper case letters and lower case letters.

OOPS

1. Write a python program using class which contains two variables of type integer. Create and initialize the object using parameterized constructor. Write a method to display maximum from given two numbers for all objects.
2. Write a program to perform all the arithmetic operations between two numbers.
3. Write a program to find the records of students having greater marks.

Regular Expression-

1. Write a Python program to check that a string contains only a certain set of characters (in this case a-z, A-Z and 0-9).
2. Write a Python program to find sequences of lowercase letters joined with a underscore.
3. Write a Python program that matches a word at the beginning of a string.
4. Write a Python program where a string will start with a specific number.
5. Write a Python program to check for a number at the end of a string.