MiniLab-6

Prof.Dr. Bahadır AKTUĞ

803400815021 Machine Learning with Python

Example - 1

Find the largest element of the following sequence by using loop and logical comparison.

89 , 5, 4, 101, 23, 11, 178, 241, 2, 17

Example - 2

Write a program which finds the Least Common Multiple (LCM) of the numbers 15 and 65.

Example - 3

Given the names and students IDs as follows, write a program which finds the students named "Ali" and prints their full names (name+surname) and student IDs.

Ali Mert, Can Demir, Mehmet Birlik, Fatma Dikmen, Ali Demir

1214, 1425, 4718, 6547, 1475

Example - 4

Given the names and students, write a program which finds the students named "Ali" and prints their full names (name+surname) and their index (order) numbers.

Ali Mert, Can Demir, Mehmet Birlik, Fatma Dikmen, Ali Demir

Example - 5

Write a program which finds the factorial of the number 9.

Example - 6

Write a program which prints the next 20 leap years.

Example - 7

Write a program which finds the prime numbers between 50 and 100.

Example - 8

Write a program which asks the user to enter a word and then prints the total number of vowels in that word.

Example - 9

Write a program which rolls double dice and print the results (Hint: use randint function from random module)

Example - 10

Write a program which asks the user to enter a word and checks if the word is is a palindrome (that is that it reads the same forwards as backwards like "racecar").

Example - 11

Write a program which asks the user two words and checks if the words are anagram (having the same type and number of letters).

Example - 12

Write a program which finds the standard deviation of the sample below.
4,2,6,1,7,5,4,6,3,8,9,8,7,1,2

Example - 13

Write a program which sorts the student records with respect to the GPA.
[[14578,2.4], [14587,3.6], [14554,3.1], [14591,2.6], [14584,2.9]]

Example - 14

Write a program which asks the user the result of a multiplication and checks the user's answer.

Example - 15

Write a number guessing game which generates a random number and asks the user to guess it. The program should print if the user input is lower or higher than the random number.

Example - 16

Write a program which prints the frequency of the letters in the following sentence.

"Man is still the most extraordinary computer of all"

John F. Kennedy