

Assignment No- 2
Programming in Python(UGCA-1914)

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Note: Kindly note that each question has weightage of 10 marks. Odd questions are to be done by students with odd Rollnos and vice versa. 9th question is compulsory to all.

1. Briefly explain python control statements and why they are needed. Discuss various control statements used in Python using suitable programs.
2. Write a detailed note on operators and expressions in python. Explain precedence and associativity of operators. Also explain non-associative operators
3. Write a program to check whether a given number is palindrome or not.
4. Write a program to check whether a given number is an Armstrong number or not.
5. a) Differentiate between negative and positive indexing in tuple using suitable examples.
b) Are Python strings immutable? Justify your answer.
6. a) Write down the properties of lists. Discuss different ways of creating a list. Briefly explain various operations performed upon a list.
b) Discuss the following dictionary methods with an example based on python program.
a) get() b) keys() c) pop() d) update() e) values() f) items()
7. Explain different data types in python with examples. Write one program to swap two numbers by using temporary variable and other program to swap two numbers without using temporary variable.
8. a) Discuss the use of break, continue and pass statements in Python with suitable program.
b) What is infinite loop? Explain the use of range() function in for loop using suitable program.
- 9 Write a detailed note on the four collection data types in the python programming language: list, tuple, set and dictionary. Write about their features and usage.