

NOIDA INSTITUTE OF ENGINEERING AND TECHNOLOGY, GREATER NOIDA

SEMESTER-ODD

UNIT: 2

ASSIGNMENT 2.1

Subject Name: Problem Solving Using Python

Topic: Decision Control Statements

Name of Faculty:.....

Submission Date:.....

1. Write short notes on
 - i. Conditional statement
 - ii. Loop statement
2. Is it necessary for every **if** block to be accompanied with an else block? Justify your answer with an example (program).
3. Write a program to implement arithmetic calculator using **elif**.
4. Write a program to illustrate the use of nested **if** statement.
5. Write a program to determine whether a digit, uppercase or lower case is entered.
6. What happens when an **else** clause is associated with a loop.
7. Write a program to find sum and reverse of digits in a number entered by the user(both within same loop).
8. Write a program to find sum of terms of a Fibonacci series upto n terms.
9. Write a program to find sum of all prime numbers and composite numbers separately within a given range.
10. Write Programs to print following patterns.

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b. *
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c. *

d. *

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e. *****

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f. *****

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g. *****
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h. *****
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