

INDIAN SCHOOL DARSAIT DEPARTMENT OF ICT



 Subject: Computer Science
 Topic: Python-conditional statements
 Worksheet No. : 4

 & Iterative Loops
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 Date: _____

 Name of the Student : ______
 Class: XI A
 Roll Number : _____

Write python programs using the following to: IF statement:

- 1. Accept a number and check if it is odd or even.
- 2. Find divisibility of a number with another number.
- 3. Accept 3 numbers and print the largest number.
- 4. Program to print whether a given character is uppercase or lowercase.
- 5. Accept three angles and determine if they form a triangle or not.
- 6. Program to display a menu: 1. Calculate area of square 2. Calculate area of circle and perform the same.
- 7. To read two numbers and an arithmetic operator (+, -, *, /, %) and display the computed result.

FOR loop:

- 8. Program to print multiplication table of a number based on user's input.
- 9. Print the sum of first n natural numbers.
- 10. Program to generate the divisors of a number.
- 11. Accept a name and display every character separately.
- 12. Print the sum of the series, $S = 1 + x + x^2 + \dots + x^n$
- 13. Print the Fibonacci series of first 20 elements
- 14. Display first n Mersenne numbers in the form $2^{n}-1$ (eg: $2^{1}-1=1$, $2^{2}-1=3...$). Accept n from user.
- 15. Input a number and test if it is a prime number or not.
- 16. Find the lowest and second lowest integer from 10 numbers.
- 17. Print Mersenne numbers and display 'Prime' next to Mersenne Prime Numbers for 20 Mersenne numbers.

WHILE loop:

- 18. Calculate the factorial of a number.
- 19. To calculate and print the sum of even and odd integers of first n natural numbers.
- 20. To read an integer and print the reverse of that number.
- 21. Accept an integer > 1000 and reverse the number.
- 22. Print sum of even and odd integers of the first n natural numbers.

Nested loop:

23. To print the following patterns:

i)

*	ii)	1	iii)	4321
* *		13		432
***		135		43
****		1357		4