

Introduction To Python Programming

Assignment-1

1. Write a python program to display following messages.

Hello "ITERIAN"

Welcome to Siksha 'O' Anusandhan Family.

Welcome to "Introduction to Computer Laboratory"

Python is fun for All !!

2. Write a python program to store your Bank account no, name and balance in three different variables and display their value on the screen as given:

My name is Amit Kumar bearing account number 123456 having balance 7654.98

3. Write a python program to exchange the values of two variables of integer type X and Y

4. Write a python program to exchange the value of 4 variables W,G,K,A such that the value of W will move to A, A to K, K to G and finally G to W. Exchange using with and without using extra variables

5. What do each of the following print?

- a. `print(5)`
- b. `print(float(25)/6)`
- c. `print(float(25/6))`
- d. `print(5/4)`
- e. `print(5//4)`
- f. `print(5.0//4)`
- g. `print(5//4.0)`
- h. `print(25//6.7)`
- i. `print(5+'6')`
- j. `print(5+7+'9')`
- k. `print("92"+7+5)`
- l. `print(2+"9")`
- m. `print("2" + "bc")`
- n. `print(2 + 3 + "bc")`
- o. `print("(2+3)" + "bc")`
- p. `print("bc" + '(2+3)')`
- q. `print("bc" + "2" + 3)`
- r. `print('b')`
- s. `print('b' + 'c')`
- t. `print(str(4)); print(ord('c'))`
- u. `print(str ('a' +4))`

Python ord() function returns the Unicode code of a given single character. It is a modern encoding standard that aims to represent every character in every language. Unicode includes:

- ASCII characters (first 128 code points(control and printable characters))
- Emojis, currency symbols, accented characters, etc.

6. Suppose that a variable is defined as `a = 3.14159`. What do each of the following print?

- a. `print(a)`
- b. `print(a+1)`
- c. `print(8/int(a))`
- d. `print(8/a)`

- e. `print(int (8/a))`
7. Evaluate the following expressions with the given values of A and B:
- $(A > B)$ and $(A < B)$ when $A=2, B=6$
 - $(A > B)$ and not $(A < B)$ when $A=7, B=6$
 - $(A == B \text{ or } A >= B)$ when $A=9, B=6$
8. Find Output
- `print(10 != 9 and not 29 >= 29)`
 - `print('hi' > 'hio' and 'hi' > 'hello')`
 - `print(10 != 9 and not 29 >= 29 and 'ME' > 'me' or 'you' < 'Yap' and 8 <= 4.3)`
9. Evaluate the following expressions involving arithmetic, relational and logical operators:
- $-3 \% -10 + 10 < 50 \text{ and } 29 >= 29$
 - $7 ** 2 <= 5 // 9 \% 3 \text{ or } 'bye' < 'Bye'$
 - $3 \% -10 < 8 \text{ and } -25 > 1 * 8 // 5$
 - $5 ** 2 // 2 + 7 > 8 \text{ or } 9 != 10$
 - $2//3 < 6 \text{ and } 'I \text{ am doing MCA'} > 'I \text{ am not doing MCA'}$
 - $10 + 6 * 2 ** 2 != 9//4-3 \text{ and } 29 >= 29/9$
 - $'hello' * (5-1) > 'hello' \text{ and } 'college' < 'collin'$
 - $4\%10 + 5//6 > 20\%6$
10. Use 2 print statements to print the following in one line:
My name is Sitara. My section number is B.
11. Calculate the multiplication and sum of two numbers
12. Calculate net salary with following information:
- Basic salary=7000
HRA=20% OF basic
DA=50% of basic
TA=20% of basic
Net salary=basic+HRA+DA+TA
13. Print true if a given number is greater than another given number(use 2 variables to store the numbers).
14. Print the following pattern without using loop
- ```

*
*
*
*

```
15. Assume a string variable str1 contains "1" initially i.e. `str1="1"`

Write a python program to print the following output using string concatenation. (You can take extra string variables)

1

1 2 1

1 2 1 3 1 2 1

1 2 1 3 1 2 1 4 1 2 1 3 1 2 1