



python

TM

TRAINING EXCERCISE



# EXERCISE - 1

1. Create a Integer Variable and convert it to Float, Boolean, String.
2. Create a Float Variable and convert it to Integer, Boolean and String.
3. Create a Boolean Variable and convert it to Integer, Float and String.
4. Create a String Variable and convert it to Integer, Float and Boolean
5. Find out values in String, Integer and Float when converting to Boolean it gives False
6. Perform operations with all the Arithmetic Operators
7. Perform operations with all the Bitwise Operators
8. Perform operations with all the Relational Operators
9. Perform operations with all the Logical Operators
10. Create a python script/program that will take input from the user for 3 numbers and result will print the biggest number and the smallest number using 'input' and 'print'.



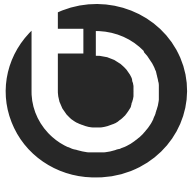
# EXERCISE - 1

11. Create another script/program using 'input' and pass all the three parameters as a single input and execute the same program as mentioned above.
12. Print odd numbers between 1 to 10 in reverse order using while.
13. Perform the same operation with for loop.
14. Print odd numbers between 1 to 10 using continue in both for and while loop.
15. Take 10 numbers in a list(array) and print only first 3 numbers using loop.
16. Write a function with recursion to give the factorial of a number.
17. Create a two functions. Call one function from another function
18. Create a function that will take 5 arguments 2 will be mandatory and 3 will be keyword parameters. If 2 parameters are passed perform multiplication of 2 parameters. If 3 parameters are passed print all the 3 parameters. If 4 parameters are passed addition of 4 parameters. If 5 parameters are passed multiply 2 mandatory parameters and then separately multiply 3 keyword parameters and add both of them.



# EXERCISE - 1

19. Create a script/program that will take arguments as 1,2,3,4,5, or 6 and will also take operands as arguments based on the selection made it will perform the operation and print the result.
- 1=Addition, 2=Subtraction, 3=Multiplication, 4=Division, 5=Exponent, 6=Floor Division. If anything else is passed it should say Invalid argument.
  - Create a parent function which will accept the options and based on the options it will call nested functions for each operation. So total 7 functions will be created one parent and 6 nested functions.
  - According to the selection made take inputs for the operations. If 1,2,3 are selected take 3 inputs as operands and if 4,5,6 are selected take 2 inputs as operands. Perform the operation and print the result.



# EXERCISE - 1

20. Define a class and define two member variables and two methods inside the class. One method will have one parameter and other method will not have any parameter. Create a constructor for the class accepting two parameters and assign them to the class member variables. One of the two methods will perform an operation on the member variables and give result. The second method will print the result.
21. Create a parent class and a child class. Create two methods in the parent class. Create one method in the child class. Create an object of parent and try to access the method of parent and child class. Create an object of child class and try to access the method of parent and child class.
22. Create a constructor and destructor for the above class.
23. Override and Overwrite a method of the parent class in child class.
24. Implement multiple inheritance and multi-level inheritance.