```
In [45]: print("Hello World")
        Hello World
In [47]: print(2+3)
In [51]: #this is my first python program
         print("Hello")
        Hello
In [53]: print("Hello") #this is comment
        Hello
In [55]: #this is demo
         #this is 2nd demo
         #this is third demo
         print("Hello")
        Hello
In [57]: """ this is also a comment """
         print("Hello")
        Hello
In [59]: a=10
         b="Arun"
         print(a)
         print(b)
        10
        Arun
In [61]: arun=10
         print(arun)
        10
In [63]: _arun=10
         print(arun)
        10
In [65]: $arun=10
         print (arun)
         Cell In[65], line 1
          $arun=10
        SyntaxError: invalid syntax
In [67]: #arun=10
         print(arun)
        10
In [70]: #arun=10
         print(#arun)
        10
In [74]: &arun=10
         print (arun)
         Cell In[74], line 1
           &arun=10
       SyntaxError: invalid syntax
In [76]: larun=10
         print(larun)
         Cell In[76], line 1
           1arun=10
        SyntaxError: invalid decimal literal
In [80]: arlun=10
         print(arlun)
        10
In [86]: arun$=10
         print(arun$)
         Cell In[86], line 1
           arun$=10
        SyntaxError: invalid syntax
In [88]: x=10
         y="Arun"
         print(x)
         print(y
        10
        Arun
In [102... x, y, z = "Arun", "Sumit", "Ramesh"
         print(x)
         print(y)
         print(z)
        Arun
        Sumit
        Ramesh
In [104... x = y = z = "Arun"
         print(x)
         print(y)
         print(z)
        Arun
        Arun
        Arun
In [106... x = "Arun"
         y = "Kumar"
         z = "Sharma"
         print(x, y, z)
        Arun Kumar Sharma
In [110... x = 10
         print(type(x))
        <class 'int'>
In [112... y = 2.5
         print(type(y))
        <class 'float'>
In [114... a = "Arun"
         print(type(a))
        <class 'str'>
In [116... a = 5+3i
         print(type(a))
         Cell In[116], line 1
           a = 5+3i
        SyntaxError: invalid decimal literal
In [118... a = 5+3j
         print(type(a))
        <class 'complex'>
In [120... b = [1, 2, 3, 4, 5]
         print(b)
         print(type(b))
        [1, 2, 3, 4, 5]
        <class 'list'>
In [122... b = (1, 2, 3, 4, 5)
         print(b)
         print(type(b))
        (1, 2, 3, 4, 5)
        <class 'tuple'>
In [124... b = \{1, 2, 3, 4, 5\}
         print(b)
         print(type(b))
        {1, 2, 3, 4, 5}
        <class 'set'>
In [126... c = {"Arun": 1, "Sumit" : 2}
         print(c)
         print(type(c))
        {'Arun': 1, 'Sumit': 2}
        <class 'dict'>
In [128... %whos
        Variable
                              Type
                                               Data/Info
        NamespaceMagics
                              MetaHasTraits
                                               <class 'IPython.core.magi<...>mespace.NamespaceMagics'>
                              complex
                                               (5+3j)
                                               10
        a1
                              int
        ar1un
                              int
                                               10
                                               10
                              int
        arun
                                               10
                              int
        arun1
                                               10
        arun1k
                              int
                                               10
        arun_k
                              int
        arunk2
                                               10
                              int
                                               {1, 2, 3, 4, 5}
        b
                              set
                              dict
        dataframe_columns
                              function
                                               <function dataframe_columns at 0x14cfa2200>
        dataframe_hash
                              function
                                               <function dataframe_hash at 0x14cfa2d40>
        dtypes_str
                              function
                                               <function dtypes_str at 0x14cfa2160>
                              function
                                               <function get_dataframes at 0x14cfa2700>
        get_dataframes
        get_ipython
                              function
                                               <function get_ipython at 0x10449a3e0>
        getpass
                              module
                                               <module 'getpass' from '/<...>b/python3.12/getpass.py'>
        hashlib
                              module
                                               <module 'hashlib' from '/<...>b/python3.12/hashlib.py'>
        import_pandas_safely
                              function
                                               <function import_pandas_safely at 0x14cfa2de0>
        is_data_frame
                              function
                                               <function is_data_frame at 0x14cfa2a20>
                              module
                                               <module 'json' from '/opt<...>on3.12/json/__init__.py'>
        json
                              module
                                               <module 'sys' (built-in)>
        sys
                                               10
        Х
                              int
                                               2.5
        У
                              float
                                               Sharma
                              str
In [130... a = 12
         b = 4
         print(a%b)
        0
In [132... a = 11
        b = 4
         print(a%b)
In [134... a = 6.66
        b = 2.6
         print(a%b)
        1.46
In [136... a = 5+2j
         b = 3
         print(a%b)
```

TypeError

Traceback (most recent call last)