```
{"nbformat":4,"nbformat_minor":0,"metadata":{"colab":{"provenance":[],"collapsed_sections":[]},"ker
nelspec":{"name":"python3","display_name":"Python
3"},"language_info":{"name":"python"}},"cells":[{"cell_type":"markdown","source":["#
                                                                                                                                              Basic
Python"],"metadata":{"id":"McSxJAwcOdZ1"}},("cell_type":"markdown","source":["## 1. Split this
string"],"metadata":{"id":"CU48hgo40wz5"}},{"cell_type":"code","source":["s
                                                                                                                                              there
Sam!\""],"metadata":{"id":"s07c7JK7Oqt-
"},"execution_count":null,"outputs":[]},{"cell_type":"code","source":[],"metadata":{"id":"6mGVa3SQYL
kb"},"execution_count":null,"outputs":[]},{"cell_type":"markdown","source":["## 2. Use .format() to
print the following string. \n","\n","### Output should be: The diameter of Earth is 12742
kilometers."],"metadata":{"id":"GH1QBn8HP375"}},{"cell_type":"code","source":["planet
\"Earth\"\n","diameter
12742"],"metadata":{"id":"_ZHoml3kPqic"},"execution_count":null,"outputs":[]},{"cell_type":"code","s
ource":[],"metadata":{"id":"HyRyJv6CYPb4"},"execution_count":null,"outputs":[]},{"cell_type":"markdo
                                                                                                                grab
wn","source":["##
                                  3.
                                              ln
                                                          this
                                                                         nest
                                                                                        dictionary
                                                                                                                                              word
\"hello\""],"metadata":{"id":"KE74ZEwkRExZ"}},{"cell_type":"code","source":["d
{'k1':[1,2,3,{'tricky':['oh','man','inception',{'target':[1,2,3,'hello']}]}]],","metadata":{"id":"fcVwbCc1QrQl"},
execution_count":null,"outputs":[]},{"cell_type":"code","source":[],"metadata":{"id":"MvbkMZpXYRaw"
"},"execution_count":null,"outputs":[]},{"cell_type":"markdown","source":["#
Numpy"],"metadata":{"id":"bw0vVp-9ddjv"}},{"cell_type":"code","source":["import
                                                                                                                               numpy
np"],"metadata":{"id":"LLiE_TYrhA10"},"execution_count":null,"outputs":[]},{"cell_type":"markdown","
source":["## 4.1 Create an array of 10 zeros? \n","## 4.2 Create an array of 10
fives?"],"metadata":{"id":"w0g8hinbgx30"}},{"cell_type":"code","source":[],"metadata":{"id":"NHrirmg
CYXvU"},"execution_count":null,"outputs":[]},{"cell_type":"code","source":[],"metadata":{"id":"e4005ls
TYXxx"},"execution_count":null,"outputs":[]},{"cell_type":"markdown","source":["## 5. Create an
                                                  the
                                                                   even
                                                                                       integers
                                                                                                               from
35"],"metadata":{"id":"qZHHDUBvrMX4"}},{"cell_type":"code","source":[],"metadata":{"id":"oAl2tbU2Y
ag-"},"execution_count":null,"outputs":[]},{"cell_type":"markdown","source":["## 6. Create a 3x3
matrix
                          with
                                                 values
                                                                           ranging
                                                                                                        from
8"],"metadata":{"id":"NaOM308NsRpZ"}},{"cell_type":"code","source":[],"metadata":{"id":"tOlEVH7BY
ceE"},"execution_count":null,"outputs":[]},("cell_type":"markdown","source":["## 7. Concatenate a
and
                      \n","##
                                                          np.array([1,
                                                                                  2,
                                                                                            3]),
                                                                                                        h
                                                                                                                          np.array([4,
6])"],"metadata":{"id":"hQ0dnhAQuU_p"}},{"cell_type":"code","source":[],"metadata":{"id":"rAPSw97aY
fEO"},"execution_count":null,"outputs":[]},{"cell_type":"markdown","source":["#
Pandas"],"metadata":{"id":"dIPEY9DRwZga"}},{"cell_type":"markdown","source":["## 8. Create a
                                                                                                                                                    2
dataframe
                                                                                                                        and
                                      with
columns"],"metadata":{"id":"ijoYW51zwr87"}},{"cell_type":"code","source":["import
pd\n"],"metadata":{"id":"T50xJRZ8uvR7"},"execution_count":null,"outputs":[]},{"cell_type":"code","so
urce":[],"metadata":{"id":"xNpl_XXoYhs0"},"execution_count":null,"outputs":[]},{"cell_type":"markdow
n","source":["## 9. Generate the series of dates from 1st Jan, 2023 to 10th Feb,
2023"], "metadata": {"id": "UXSmdNclyJQD"}\}, {"cell\_type": "code", "source": [], "metadata": {"id": "dgyC0Jharter of the content of the con
VYI4F"},"execution_count":null,"outputs":[]},{"cell_type":"markdown","source":["## 10. Create 2D list
to DataFrame\n","\n","lists = [[1, 'aaa', 22],\n","
                                                                                           [2, 'bbb', 25],\n",
                                                                                                                                         [3, 'ccc',
24]]"],"metadata":{"id":"ZizSetD-y5az"}},{"cell_type":"code","source":["lists = [[1, 'aaa', 22], [2, 'bbb',
25],
                                                                        [3,
                                                                                                                                               'ccc'.
24]]"],"metadata":{"id":"_XMC8aEt0llB"},"execution_count":null,"outputs":[]},("cell_type":"code","sour
ce":[],"metadata":{"id":"knH76sDKYsVX"},"execution_count":null,"outputs":[]}]}
```