```
{ "nbformat": 4, "nbformat_minor
":0, "metadata": { "colab":
{ "provenance ":
[], "collapsed_sections":
[]], "kernelspec":
{"name": "python3", "display_na
me": "Python
3"}, "language_info":
{ "name": "python" } }, "cells":
[{"cell_type": "markdown", "sou
rce":["# Basic
Python"], "metadata":
{ "id": "McSxJAwcOdZ1" } },
{"cell_type": "markdown", "sour
ce":["## 1. Split this
string"], "metadata":
{ "id": "CU48hgo40wz5" } },
{"cell_type": "code", "source":
["s = \]"Hi there
Sam! \ " " ] , "metadata" :
{ "id": "s07c7JK7Oqt-
"}, "execution_count":null, "ou
tputs":[]},
{"cell_type": "code", "source":
[], "metadata":
{ "id": "6mGVa3SQYLkb" }, "execut
ion_count":null, "outputs":
[]].
{"cell_type": "markdown", "sour
ce":["## 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"}, "execut
```

ion count" null "outputs".

```
{"id": "_ZHom13kPqic"}, "execut
ion_count":null, "outputs":
[]},
{"cell_type": "code", "source":
[], "metadata":
{"id": "HyRyJv6CYPb4"}, "execut
ion_count":null, "outputs":
[]}.
{"cell_type": "markdown", "sour
ce":["## 3. In this nest
dictionary grab the word
\"hello\""], "metadata":
{ "id": "KE74ZEwkRExZ"}},
{"cell_type": "code", "source":
["d = {'k1':[1,2,3,{'tricky':}]}
['oh', 'man', 'inception',
{ 'target':
[1,2,3,'hello']}]]]]], metad
ata":
["id": "fcVwbCc1QrQI"], "execut
ion_count":null, "outputs":
[]],
{"cell_type": "code", "source":
[], "metadata":
{ "id": "MvbkMZpXYRaw" }, "execut
ion_count":null, "outputs":
[]}.
{"cell_type": "markdown", "sour
ce":["# Numpy"], "metadata":
{ "id": "bw0vVp-9ddjv" } },
{"cell_type": "code", "source":
["import numpy as
np"], "metadata":
{"id": "LLiE_TYrhA10"}, "execut
ion_count":null, "outputs":
[]],
{"cell_type": "markdown", "sour
ce":["## 4.1 Create an array
of 10 zeros? \n", "## 4.2
Create an array of 10
fives?"], "metadata":
{ "id": "wOg8hinbgx30" } },
{"cell_type": "code", "source":
[], "metadata":
{"id": "NHrirmgCYXvU"}, "execut
ion_count":null, "outputs":
```

```
[]],
{"cell_type": "code", "source":
[], "metadata":
{ "id": "e40051sTYXxx" }, "execut
ion_count":null, "outputs":
[]],
{"cell_type": "markdown", "sour
ce":["## 5. Create an array
of all the even integers from
20 to 35"], "metadata":
{"id": "gZHHDUBvrMX4"}},
{"cell_type": "code", "source":
[], "metadata":
{ "id": "oAI2tbU2Yag-
"}, "execution_count":null, "ou
tputs":[]},
["cell_type": "markdown", "sour
ce":["## 6. Create a 3x3
matrix with values ranging
from 0 to 8"], "metadata":
{ "id": "NaOM308NsRpZ" } },
{"cell_type": "code", "source":
[], "metadata":
{"id":"tOlEVH7BYceE"}, "execut
ion_count":null, "outputs":
[]},
{"cell_type": "markdown", "sour
ce":["## 7. Concatenate a and
b \n","## a = np.array([1, 2,
3]), b = np.array([4, 5,
6])"],"metadata":
{ "id": "hQ0dnhAQuU_p" } },
{"cell_type": "code", "source":
[], "metadata":
{ "id": "rAPSw97aYfE0" }, "execut
ion_count":null, "outputs":
[]],
{"cell_type": "markdown", "sour
ce":["# Pandas"], "metadata":
{"id": "dlPEY9DRwZga"}},
{"cell_type": "markdown", "sour
ce":["## 8. Create a
dataframe with 3 rows and 2
columns"], "metadata":
{ "id": "ijoYW51zwr87" } },
{"cell_type": "code", "source":
```

```
{"id":"ijoYW51zwr87"}},
{"cell_type": "code", "source":
["import pandas as
pd\n"], "metadata":
{ "id": "T50xJRZ8uvR7" }, "execut
ion_count":null, "outputs":
[\ ]\ ]
{"cell_type": "code", "source":
[], "metadata":
{ "id": "xNpI_XXoYhs0"}, "execut
ion_count":null, "outputs":
[]],
{"cell_type": "markdown", "sour
ce":["## 9. Generate the
series of dates from 1st Jan.
2023 to 10th Feb.
2023"], "metadata":
{ "id": "UXSmdNclyJQD" } },
{"cell_type": "code", "source":
[], "metadata":
{ "id": "dgyCOJhVY14F" }, "execut
ion_count":null, "outputs":
[]],
{"cell_type": "markdown", "sour
ce":["## 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": "_XMC8aEt011B"}, "execut
ion_count":null, "outputs":
[]].
{"cell_type": "code", "source":
[], "metadata":
{"id": "knH76sDKYsVX"}, "execut
ion_count":null, "outputs":
[]]]
```