```
{
  "cells": [
   "cell_type": "markdown",
   "metadata": {
    "id": "McSxJAwcOdZ1"
   },
    "source": [
    "# Basic Python"
  },
   "cell_type": "markdown",
   "metadata": {
    "id": "CU48hgo40wz5"
   "source": [
    "## 1. Split this string"
  },
   "cell_type": "code",
   "execution_count": null,
   "metadata": {
    "id": "s07c7JK70qt-"
   "outputs": [],
   "source": [
    "s = \"Hi there Sam!\""
  },
   "cell_type": "code",
   "execution_count": null,
   "metadata": {
    "id": "6mGVa3SQYLkb"
   },
   "outputs": [],
   "source": []
  },
   "cell_type": markdown",
   "metadata": {
    "id": "GH1QBn8HP375"
   "source": [
    "## 2. Use .format() to print the following string. \n",
    "### Output should be: The diameter of Earth is 12742 kilometers."
  },
   "cell_type": "code",
   "execution_count": null,
   "metadata": {
    "id": "_ZHoml3kPqic"
   },
   "outputs": [],
   "source": [
    "planet = \TEarth\T',
    "diameter = 12742"
   ]
  },
```

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

```
]
},
 "cell_type": "code",
 "execution_count": null,
 "metadata": {
  "id": "NHrirmgCYXvU"
 "outputs": [],
 "source": []
},
 "cell_type": "code",
 "execution_count": null,
 "metadata": {
  "id": "e40051sTYXxx"
 },
 "outputs": [],
 "source": []
},
 "cell_type": "markdown",
 "metadata": {
  "id": "gZHHDUBvrMX4"
 },
 "source": [
  "## 5. Create an array of all the even integers from 20 to 35"
},
 "cell_type": "code",
 "execution_count": null,
 "metadata": {
  "id": "oAI2tbU2Yag-"
 },
 "outputs": [],
 "source": []
},
 "cell type": "markdown",
 "metadata": {
  "id": "NaOM308NsRpZ"
 },
 "source": [
  "## 6. Create a 3x3 matrix with values ranging from 0 to 8"
 ]
},
 "cell_type": "code",
 "execution_count": null,
 "metadata": {
  "id": "tOlEVH7BYceE"
 "outputs": [],
 "source": []
},
 "cell_type": "markdown",
 "metadata": {
  "id": "hQ0dnhAQuU_p"
 },
 "source": [
  "## 7. Concatinate a and b n,
  "## a = np.array([1, 2, 3]), b = np.array([4, 5, 6])"
```

```
},
 "cell_type": "code",
 "execution_count": null,
 "metadata": {
  "id": "rAPSw97aYfE0"
 "outputs": [],
 "source": []
},
 "cell_type": "markdown",
 "metadata": {
  "id": "dlPEY9DRwZga"
 "source": [
  "# Pandas"
},
 "cell_type": "markdown",
 "metadata": {
  "id": "ijoYW51zwr87"
 "source": [
  "## 8. Create a dataframe with 3 rows and 2 columns"
},
 "cell_type": "code",
 "execution count": null,
 "metadata": {
  "id": "T50xJRZ8uvR7"
 },
 "outputs": [],
 "source": [
  "import pandas as pd\n"
},
 "cell_type": "code",
 "execution_count": null,
 "metadata": {
  "id": "xNpI XXoYhs0"
 },
 "outputs": [],
 "source": []
},
 "cell_type": "markdown",
 "metadata": {
  "id": "UXSmdNclyJQD"
  "## 9. Generate the series of dates from 1st Jan, 2023 to 10th Feb, 2023"
 ]
},
 "cell_type": "code",
 "execution_count": null,
 "metadata": {
  "id": "dgyC0JhVYl4F"
```

```
},
  "cell type": "markdown",
  "metadata": {
  "id": "ZizSetD-y5az"
 },
  "source": [
  "## 10. Create 2D list to DataFrame\n",
  "\n",
  ]
},
 "cell_type": "code",
  "execution_count": null,
  "metadata": {
  "id": " XMC8aEt0llB"
  "outputs": [],
 "source": [
  "lists = [[1, 'aaa', 22], [2, 'bbb', 25], [3, 'ccc', 24]]"
},
  "cell_type": "code",
 "execution_count": null,
  "metadata": {
  "id": "knH76sDKYsVX"
 "outputs": [],
 "source": []
],
'metadata": {
 "colab": {
 "collapsed sections": [],
 "provenance": []
 "kernelspec": {
 "display_name": "Python 3",
  "language": "python",
  "name": "python3"
"codemirror_mode": {
  "name": "ipython",
   "version": 3
  "file_extension": ".py",
 "mimetype": "text/x-python",
 "name": "python",
 "nbconvert_exporter": "python",
 "pygments_lexer": "ipython3",
  "version": "3.8.8"
}
},
"nbformat": 4,
"nbformat minor": 1
```