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        "Basic Python\n",
        "1. Split this string"
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        "s = \"Hi there Sam!\"\n",
        "s.split()"
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          "data": {
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              "['Hi', 'there', 'Sam!']"
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```

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    "2. Use .format() to print the following string.\n",
    "Output should be: The diameter of Earth is 12742 kilometers."
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        "planet = \"Earth\"\n",
        "diameter = 12742\n",
        "print('The diameter of {} is {} kilometers.' . format(planet,diameter));"
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            "text": [
                "The diameter of Earth is 12742 kilometers.\n"
            ]
        }
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        "3. In this nest dictionary grab the word \"hello\""
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        "d = {'k1':[1,2,3,{ 'tricky':['oh','man','inception',{ 'target':[1,2,3,'hello']}]}]}\n",
        "d['k1'][3]['tricky'][3]['target'][3]"
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    "data": {
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        "hello"
      ],
      "application/vnd.google.colaboratory.intrinsic+json": {
        "type": "string"
      }
    },
    "metadata": {},
    "execution_count": 4
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],
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{
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    "NUMPY\n",
    "\n",
    "import numpy as np\n",
    "\n",
    "4.1 Create an array of 10 zeros?\n",
    "\n",
    "4.2 Create an array of 10 fives?"
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    "import numpy as np\n",
    "a = np.zeros(10)\n",
    "a"
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      "data": {
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    "b = np.ones(10)*5\\n",
    "b"
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        ]
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  "c = np.arange(0,9).reshape(3,3)\n",
  "c"
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        "array([[0, 1, 2],\n",
        "       [3, 4, 5],\n",
        "       [6, 7, 8]])"
      ]
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    "7. Concatenate a and b\n",
    "\n",
    "a = np.array([1, 2, 3]), b = np.array([4, 5, 6])"
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    "a = np.array([1,2,3])\n",
    "b = np.array([4,5,6])\n",
    "np.concatenate((a,b),axis=0)"
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```

        "text/plain": [
            "array([1, 2, 3, 4, 5, 6])"
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        "Pandas\n",
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        "import pandas as pd\n",
        "d
{
    "fruits": ["mango", "orange", "apple"],
    "color": ["yellow", "orange", "red"]}
df = pd.DataFrame(d)
df"
    ],
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                    "   fruits  color\n0  mango  yellow\n1  orange  orange\n2   apple    red"
                ],
                "text/html": [
                    "\n",
                    "<div id=df-871faedc-5c63-4ded-b04c-bdcceab5bf4b>\n",
                    "<div class=colab-df-container>\n",
                    "<div>\n",
                    "<style scoped>\n",
                    ".dataframe tbody tr th:only-of-type {\n",
                    vertical-align: middle;\n",
                    }\n",

```

[illegible]

```

"      flex-wrap:wrap;\n",
"      gap: 12px;\n",
"    }\n",
"\n",
"    .colab-df-convert {\n",
"      background-color: #E8F0FE;\n",
"      border: none;\n",
"      border-radius: 50%;\n",
"      cursor: pointer;\n",
"      display: none;\n",
"      fill: #1967D2;\n",
"      height: 32px;\n",
"      padding: 0 0 0 0;\n",
"      width: 32px;\n",
"    }\n",
"\n",
"    .colab-df-convert:hover {\n",
"      background-color: #E2EBFA;\n",
"      box-shadow: 0px 1px 2px rgba(60, 64, 67, 0.3), 0px 1px 3px 1px
rgba(60, 64, 67, 0.15);\n",
"      fill: #174EA6;\n",
"    }\n",
"\n",
"    [theme=dark] .colab-df-convert {\n",
"      background-color: #3B4455;\n",
"      fill: #D2E3FC;\n",
"    }\n",
"\n",
"    [theme=dark] .colab-df-convert:hover {\n",
"      background-color: #434B5C;\n",
"      box-shadow: 0px 1px 3px 1px rgba(0, 0, 0, 0.15);\n",
"      filter: drop-shadow(0px 1px 2px rgba(0, 0, 0, 0.3));\n",
"      fill: #FFFFFF;\n",
"    }\n",
"  </style>\n",
"\n",
"  <script>\n",
"    const buttonEl =\n",
"      document.querySelector('#df-871faedc-5c63-4ded-b04c-
bdcceab5bf4b button.colab-df-convert');\n",
"    buttonEl.style.display =\n",
"      google.colab.kernel.accessAllowed ? 'block' : 'none';\n",
"\n",
"    async function convertToInteractive(key) {\n",
"      const element = document.querySelector('#df-871faedc-5c63-
4ded-b04c-bdcceab5bf4b');\n",
"      const dataTable =\n",
"
                                                                    await
google.colab.kernel.invokeFunction('convertToInteractive',\n",
"
                                                                    [key], {});\n",
"      if (!dataTable) return;\n",
"\n",
"      const docLinkHtml = 'Like what you see? Visit the ' +\n",
"
                                                                    '<a    target=\"_blank\"
href=https://colab.research.google.com/notebooks/data_table.ipynb>data    table
notebook</a>'\n",
"      + ' to learn more about interactive tables.';\n",

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```

        element.innerHTML = `;\n`,
        dataTable['output_type'] = 'display_data';\n`,
        await google.colab.output.renderOutput(dataTable, element);\n`,
        const docLink = document.createElement('div');\n`,
        docLink.innerHTML = docLinkHtml;\n`,
        element.appendChild(docLink);\n`,
        }\n`,
        </script>\n`,
        </div>\n`,
        </div>\n`,
        "
    ]
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    "9. Generate the series of dates from 1st Jan, 2023 to 10th Feb, 2023"
  ],
  "metadata": {
    "id": "IcEm0PFZ-SsA"
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{
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  "source": [
    "P = pd.date_range(start='1-1-2023',end='10-2-2023')\n",
    "for val in P:\n",
    "    print(val);",
  ],
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    "id": "jGFsgPKs-T_Z",
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  "execution_count": 16,
  "outputs": [
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        "2023-01-01 00:00:00\n",
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      ]
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```



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