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  "kernelspec": {
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    "display_name": "Python 3"
  },
  "language_info": {
    "name": "python"
  }
},
"cells": [
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    "source": [
     "# Basic Python"
    "metadata": {
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    }
  },
    "cell type": "markdown",
    "source": [
      "## 1. Split this string"
    "metadata": {
      "id": "CU48hgo40wz5"
  },
    "cell type": "code",
    "source": [
     "s = \"Hi there Sam!\""
    ],
    "metadata": {
     "id": "s07c7JK70qt-"
    },
    "execution_count": 1,
    "outputs": []
  },
    "cell type": "code",
    "source": [
     "s"
    ],
    "metadata": {
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        "height": 35
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      "outputId": "1d6bb41c-a6ff-4821-e6f9-4fbd4f9d5e71"
```

```
"execution count": 2,
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          "data": {
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              "'Hi there Sam!'"
            "application/vnd.google.colaboratory.intrinsic+json": {
              "type": "string"
          },
          "metadata": {},
          "execution count": 2
        }
      ]
    },
      "cell type": "markdown",
      "source": [
        "## 2. Use .format() to print the following string. \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": 3,
      "outputs": []
    },
      "cell type": "code",
      "source": [
        "print(\"The diameter of {} is {}
kilometer\".format(planet, diameter\n",
                                                             ) ) "
      ],
      "metadata": {
        "id": "HyRyJv6CYPb4",
        "colab": {
          "base uri": "https://localhost:8080/"
        "outputId": "f1be3e4d-a5fa-47a2-c4c1-f01702b350e7"
      "execution count": 5,
      "outputs": [
```

```
{
          "output type": "stream",
          "name": "stdout",
          "text": [
            "The diameter of Earth is 12742 kilometer\n"
        }
      ]
    },
      "cell_type": "markdown",
      "source": [
        "## 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']}}
] } ] } "
      ],
      "metadata": {
        "id": "fcVwbCc1QrQI"
      } ,
      "execution count": 6,
      "outputs": []
    },
      "cell type": "code",
      "source": [
        "d['k1'][3]['tricky'][3]['target'][3]"
      ],
      "metadata": {
        "id": "MvbkMZpXYRaw",
        "colab": {
          "base uri": "https://localhost:8080/",
          "height": 35
        "outputId": "562192a8-ea84-44f7-c7ad-6bd08e511512"
      },
      "execution count": 9,
      "outputs": [
        {
          "output type": "execute result",
          "data": {
            "text/plain": [
              "'hello'"
            "application/vnd.google.colaboratory.intrinsic+json": {
              "type": "string"
            }
          },
          "metadata": {},
          "execution count": 9
```

```
]
},
{
  "cell type": "markdown",
  "source": [
   "# Numpy"
  "metadata": {
   "id": "bw0vVp-9ddjv"
},
  "cell type": "code",
  "source": [
   "import numpy as np"
  "metadata": {
   "id": "LLiE TYrhA10"
  "execution_count": 10,
  "outputs": []
},
  "cell_type": "markdown",
  "source": [
    "## 4.1 Create an array of 10 zeros? n,
    "## 4.2 Create an array of 10 fives?"
  ],
  "metadata": {
   "id": "wOg8hinbgx30"
},
  "cell type": "code",
  "source": [
   "a=np.zeros(10)\n",
    "a"
  "metadata": {
    "id": "NHrirmgCYXvU",
    "colab": {
      "base uri": "https://localhost:8080/"
    },
    "outputId": "8376576f-0921-4780-d856-f25f33ff720a"
  },
  "execution_count": 12,
  "outputs": [
    {
      "output_type": "execute_result",
      "data": {
        "text/plain": [
          "array([0., 0., 0., 0., 0., 0., 0., 0., 0.])"
      },
      "metadata": {},
      "execution count": 12
    }
```

```
]
},
{
  "cell_type": "code",
  "source": [
    "b=np.ones(10)*5\n",
    "b"
  ],
  "metadata": {
    "id": "e4005lsTYXxx",
    "colab": {
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    "outputId": "0131e0ec-100a-42f5-9867-ad4aab2013ec"
  },
  "execution count": 13,
  "outputs": [
    {
      "output_type": "execute_result",
      "data": {
        "text/plain": [
          "array([5., 5., 5., 5., 5., 5., 5., 5., 5.])"
        ]
      } ,
      "metadata": {},
      "execution count": 13
  ]
},
  "cell type": "markdown",
  "source": [
    "## 5. Create an array of all the even integers from 20 to 35"
  ],
  "metadata": {
    "id": "gZHHDUBvrMX4"
  }
},
 "cell type": "code",
  "source": [
    "s=np.arange(20,50,2)\n",
    "s"
 ],
  "metadata": {
    "id": "oAI2tbU2Yag-",
    "colab": {
      "base uri": "https://localhost:8080/"
    "outputId": "09b9e929-d046-4017-95d9-15f41f514437"
  "execution count": 15,
  "outputs": [
    {
      "output type": "execute result",
      "data": {
        "text/plain": [
```

```
"array([20, 22, 24, 26, 28, 30, 32, 34, 36, 38, 40, 42, 44,
46, 48])"
            ]
          },
          "metadata": {},
          "execution count": 15
      ]
    },
      "cell_type": "markdown",
      "source": [
        "## 6. Create a 3x3 matrix with values ranging from 0 to 8"
      ],
      "metadata": {
        "id": "NaOM308NsRpZ"
    },
      "cell type": "code",
      "source": [
        "b=np.arange(0,9).reshape(3,3)n",
        "b"
      ],
      "metadata": {
        "id": "tOlEVH7BYceE",
        "colab": {
          "base uri": "https://localhost:8080/"
        "outputId": "60c7326a-9633-4425-bb39-c062e828d15d"
      },
      "execution count": 17,
      "outputs": [
        {
          "output type": "execute result",
          "data": {
            "text/plain": [
              "array([[0, 1, 2],\n",
                      [3, 4, 5], n",
                      [6, 7, 8]])"
            ]
          },
          "metadata": {},
          "execution count": 17
        }
      ]
    },
      "cell_type": "markdown",
      "source": [
        "## 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": [
    "a=np.array([1,2,3])\n",
    "b=np.array([4,5,6])\n",
    "np.concatenate((a,b))"
  ],
  "metadata": {
    "id": "rAPSw97aYfE0",
    "colab": {
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    "outputId": "7a0cce13-2d3f-4a8c-b9a4-1c9aa60b1575"
  },
  "execution count": 18,
  "outputs": [
    {
      "output type": "execute result",
      "data": {
        "text/plain": [
   "array([1, 2, 3, 4, 5, 6])"
        ]
      },
      "metadata": {},
      "execution count": 18
  ]
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  "cell type": "markdown",
  "source": [
   "# Pandas"
  ],
  "metadata": {
   "id": "dlPEY9DRwZga"
},
  "cell type": "markdown",
  "source": [
   "## 8. Create a dataframe with 3 rows and 2 columns"
  "metadata": {
    "id": "ijoYW51zwr87"
},
  "cell_type": "code",
  "source": [
   "import pandas as pd\n"
  "metadata": {
   "id": "T50xJRZ8uvR7"
  "execution count": 22,
  "outputs": []
},
{
  "cell type": "code",
```

```
"source": [
       "d =
{\"names\":[\"aaa\",\"bbb\",\"ccc\",],\"age\":[21,22,20]}\n",
       "df = pd.DataFrame(d)\n",
       "df"
     ],
     "metadata": {
       "id": "xNpI XXoYhs0",
       "colab": {
         "base uri": "https://localhost:8080/",
         "height": 143
       } ,
       "outputId": "92862b6c-029d-4dff-9879-8732bed4335b"
     },
     "execution count": 24,
     "outputs": [
       {
         "output type": "execute result",
         "data": {
          "text/plain": [
            " names age\n",
            "0 aaa 21\n",
            "1 bbb 22\n",
            "2
               ccc 20"
          "text/html": [
            "\n",
               <div id=\"df-b5679877-3840-42e3-9a1b-a99a23e039fd\">\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",
            "\n",
                 .dataframe tbody tr th {\n",
            11
                    vertical-align: top; \n",
            **
                 }\n",
            "\n",
                 .dataframe thead th {\n",
            "
                    text-align: right; \n",
                 }\n",
            "</style>\n",
            "\n",
               <thead>n",
            11
                 \n",
            **
                   \n",
            **
                   names\n",
            **
                  age\n",
            11
                 \n",
            **
               </thead>\n",
            **
               \n",
            "
                  \n'',
            "
                  0\n",
            **
                  aaa\n",
            **
                  21\n",
            "
                 \n",
                 <tr>\n",
```

```
1\n",
                     bbb\n",
                     22\n",
              **
                   \n",
              **
                   \n",
              **
                     2\n",
              "
                     ccc\n",
              **
                     20\n",
                   \n",
                \n",
              "\n",
              "</div>\n",
                     <button class=\"colab-df-convert\"</pre>
onclick=\"convertToInteractive('df-b5679877-3840-42e3-9a1b-
a99a23e039fd')\"\n",
                             title=\"Convert this dataframe to an
interactive table.\"\n",
                             style=\"display:none;\">\n",
                       \n",
                <svg xmlns=\"http://www.w3.org/2000/svg\"</pre>
height=\"24px\"viewBox=\"0 0 24 24\"\n",
                     width=\"24px\">\n",
              "
                   \phi = \mbox{ mon oh24v24H0V0z} \mbox{ fill=\mbox{"none}''/>\n",}
              "
                   <path d=\"M18.56 5.441.94 2.06.94-2.06 2.06-.94-2.06-</pre>
.94-.94-2.06-.94 2.06-2.06.94zm-11 1L8.5 8.51.94-2.06 2.06-.94-2.06-
.94L8.5 2.51-.94 2.06-2.06.94zm10 101.94 2.06.94-2.06 2.06-.94-2.06-.94-
.94-2.06-.94 2.06-2.06.94z\"/><path d=\"M17.41 7.961-1.37-1.37c-.4-.4-
.92-.59-1.43-.59-.52 0-1.04.2-1.43.59L10.3 9.451-7.72 7.72c-.78.78-.78
2.05 0 2.83L4 21.41c.39.39.9.59 1.41.59.51 0 1.02-.2 1.41-.5917.78-7.78
2.81-2.81c.8-.78.8-2.07 0-2.86zM5.41 20L4 18.5917.72-7.72 1.47 1.35L5.41
20z\"/>\n",
                 </svq>\n",
              **
                     </button>\n",
              11
                     \n'',
                 <style>\n",
              "
                   .colab-df-container {\n",
              11
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              "
                     flex-wrap:wrap; \n",
              **
                     gap: 12px; \n",
              "
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                   .colab-df-convert {\n",
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                     border: none; \n",
              "
                     border-radius: 50%; \n",
              "
                     cursor: pointer; \n",
                     display: none; \n",
              **
                     fill: #1967D2;\n",
              11
                     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",
              11
                    [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.guerySelector('#df-b5679877-3840-42e3-
9a1b-a99a23e039fd 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-
b5679877-3840-42e3-9a1b-a99a23e039fd'); \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\"</pre>
href=https://colab.research.google.com/notebooks/data table.ipynb>data
table notebook</a>'\n",
                            + ' to learn more about interactive
tables.'; \n",
                          element.innerHTML = '';\n",
                          dataTable['output type'] = 'display data'; \n",
                          await
google.colab.output.renderOutput(dataTable, element); \n",
              11
                          const docLink =
document.createElement('div'); \n",
                          docLink.innerHTML = docLinkHtml; \n",
              **
                          element.appendChild(docLink); \n",
              11
                        }\n",
              11
                     </script>\n",
                   </div>\n",
              " </div>\n",
            ]
          },
          "metadata": {},
          "execution count": 24
```

```
]
    },
      "cell type": "markdown",
      "source": [
        "## 9. Generate the series of dates from 1st Jan, 2023 to 10th
Feb, 2023"
      "metadata": {
        "id": "UXSmdNclyJQD"
    },
      "cell type": "code",
      "source": [
        "m= pd.date range(start='1-01-2023',end='10-02-2023')\n",
        "for i in m:\n",
        " print(i)"
      ],
      "metadata": {
        "id": "dgyC0JhVYl4F",
        "colab": {
          "base uri": "https://localhost:8080/"
        "outputId": "148bfe6d-e4ea-4796-fa1e-79ad4b21f7d9"
      "execution count": 25,
      "outputs": [
          "output type": "stream",
          "name": "stdout",
          "text": [
            "2023-01-01 00:00:00\n",
            "2023-01-02 00:00:00\n",
            "2023-01-03 00:00:00\n",
            "2023-01-04 00:00:00\n",
            "2023-01-05 00:00:00\n",
            "2023-01-06 00:00:00\n",
            "2023-01-07 00:00:00\n",
            "2023-01-08 00:00:00\n",
            "2023-01-09 00:00:00\n",
            "2023-01-10 00:00:00\n",
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            "2023-01-22 00:00:00\n",
            "2023-01-23 00:00:00\n",
            "2023-01-24 00:00:00\n",
            "2023-01-25 00:00:00\n",
```

```
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"2023-03-24 00:00:00\n",
```

```
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    "print(pd.DataFrame(lists))"
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