

Project development phase (delivery)

Sprint- 3

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```

```
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    "\n",
    "### Output should be: The diameter of Earth is 12742 kilometers."
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    "diameter = 12742"
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```

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          "The diameter of Earth is 12742 kilometers.\n"
        ]
      }
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}
```

```

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    ]
  }
],
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  "source": [
    "import numpy as np"
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  "metadata": {
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    "## 4.2 Create an array of 10 fives?"
  ],
  "metadata": {
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  "source": [
    "zeros=np.zeros(10)"
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  "source": [
```

```

    "fives=np.full(10,5)\n",
    "print(zeros,fives)"
],
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    "outputId": "0f2ef939-1168-496d-b3fc-6d1e6be7b190",
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        "name": "stdout",
        "text": [
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        ]
    }
],
},
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    "source": [
        "## 5. Create an array of all the even integers from 20 to 35"
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    "metadata": {
        "id": "gZHHDUBvrMX4"
    }
}

```



```
},
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  "cell_type": "code",
  "source": [
    "arr=[l for l in range(20,35+1) if i%2==0]\n",
    "arr"
  ],
  "metadata": {
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      "metadata": {},
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```

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}
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        "array=np.arange(0,9).reshape((3,3))\n",
        "array"
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        "outputId": "a8144bde-e4e9-46ac-f89b-22306e71c7bd",
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            "output_type": "execute_result",
            "data": {
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                    "       [3, 4, 5],\n",

```

```

        "    [6, 7, 8]]]"
    ]
},
"metadata": {},
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},
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        "## 7. Concatenate a and b \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",
        "c=np.concatenate((a,b))\n",
        "c"
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```

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  "metadata": {
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    "df"
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“ fill: #174EA6;\n”,
“ }\n”,
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“ fill: #D2E3FC;\n”,
“ }\n”,
“\n”,
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“ box-shadow: 0px 1px 3px 1px rgba(0, 0, 0, 0.15);\n”,
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“ fill: #FFFFFF;\n”,
“ }\n”,
“ </style>\n”,
“\n”,
“ <script>\n”,
“ const buttonEl =\n”,
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```

    "    document.querySelector('#df-598e9ee5-fb74-4a51-acc5-099517bc009e 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-598e9ee5-fb74-4a51-acc5-
099517bc009e');\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",
    "        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",
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    "    "
]
},

```

```

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  "source": [
    "## 9. Generate the series of dates from 1st Jan, 2023 to 10th Feb, 2023"
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  "metadata": {
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  }
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  "source": [
    "date=pd.date_range(\"01-01-2023\", \"10-02-2023\", freq=\"D\")"
  ],
  "metadata": {
    "id": "dgyCOJhVYl4F",
    "outputId": "187fb707-db6f-42fa-d730-c96366dfadae",
    "colab": {
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    }
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  "execution_count": 35,
  "outputs": [
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```

```

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    "                '2023-01-05', '2023-01-06', '2023-01-07', '2023-01-08',\n",
    "                '2023-01-09', '2023-01-10',\n",
    "                ...\n",
    "                '2023-09-23', '2023-09-24', '2023-09-25', '2023-09-26',\n",
    "                '2023-09-27', '2023-09-28', '2023-09-29', '2023-09-30',\n",
    "                '2023-10-01', '2023-10-02'],\n",
    "              dtype='datetime64[ns]', length=275, freq='D')"
```

```

    }
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    "execution_count": 36,
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    "cell_type": "code",
    "source": [
      "df=pd.DataFrame(lists,columns=[\"C1\", \"C2\", \"C3\"])\n",
      "df"
    ],
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      "outputId": "1f47a5ef-d884-493b-85a7-4e462c85d335",
      "colab": {
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    "execution_count": 38,
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```

```

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      "0 1 aaa 22\n",
      "1 2 bbb 25\n",
      "2 3 ccc 24"
    ],
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      "       }\n",
      "     \n",
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      "       vertical-align: top;\n",
      "     }\n",
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      "     .dataframe thead th {\n",
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      "     <thead>\n",

```

```
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" <th>C2</th>\n",
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```



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“\n”,
“ <script>\n”,
“ const buttonEl =\n”,
“ document.querySelector('#df-fef6f28e-9431-4092-82cd-da1a9e44b091 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-fef6f28e-9431-4092-82cd-
da1a9e44b091');\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",
        "        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",
        "    "
    ]
},
"metadata": {},
"execution_count": 38

```

```
    }  
  ]  
},  
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  },  
  "execution_count": null,  
  "outputs": []  
}  
]  
}
```