

```

{
  "cells": [
    {
      "cell_type": "markdown",
      "id": "cdc29d80",
      "metadata": {},
      "source": [
        "# 01. Importing libraries"
      ]
    },
    {
      "cell_type": "code",
      "execution_count": 1,
      "id": "e38aalc0",
      "metadata": {},
      "outputs": [],
      "source": [
        "# Import libraries\n",
        "import pandas as pd\n",
        "import numpy as np\n",
        "import os"
      ]
    },
    {
      "cell_type": "code",
      "execution_count": 2,
      "id": "83ee044f",
      "metadata": {},
      "outputs": [],
      "source": [
        "x = 2"
      ]
    },
    {
      "cell_type": "markdown",
      "id": "8ebe9cf5",
      "metadata": {},
      "source": [
        "# 02. Data types"
      ]
    },
    {
      "cell_type": "code",
      "execution_count": 3,
      "id": "c85b5e9c",
      "metadata": {},
      "outputs": [
        {
          "data": {
            "text/plain": [
              "2"
            ]
          }
        ]
      ],
      "execution_count": 3,
    }
  ]
}

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    "metadata": {},
    "output_type": "execute_result"
  }
],
"source": [
  "x"
]
},
{
  "cell_type": "code",
  "execution_count": 4,
  "id": "d0e73fbc",
  "metadata": {},
  "outputs": [
    {
      "name": "stdout",
      "output_type": "stream",
      "text": [
        "2\n"
      ]
    }
  ],
  "source": [
    "print(x)"
  ]
},
{
  "cell_type": "code",
  "execution_count": 5,
  "id": "fd91009b",
  "metadata": {},
  "outputs": [
    {
      "data": {
        "text/plain": [
          "int"
        ]
      },
      "execution_count": 5,
      "metadata": {},
      "output_type": "execute_result"
    }
  ],
  "source": [
    "type(x)"
  ]
},
{
  "cell_type": "code",
  "execution_count": 6,
  "id": "b6360286",
  "metadata": {},
  "outputs": [],
  "source": [

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    "y = 5.678"
  ]
},
{
  "cell_type": "code",
  "execution_count": 7,
  "id": "fb5989a4",
  "metadata": {},
  "outputs": [
    {
      "data": {
        "text/plain": [
          "float"
        ]
      },
      "execution_count": 7,
      "metadata": {},
      "output_type": "execute_result"
    }
  ],
  "source": [
    "type(y)"
  ]
},
{
  "cell_type": "code",
  "execution_count": 8,
  "id": "f337b238",
  "metadata": {},
  "outputs": [],
  "source": [
    "z = 'Brazil'"
  ]
},
{
  "cell_type": "code",
  "execution_count": 9,
  "id": "20fbf275",
  "metadata": {},
  "outputs": [
    {
      "data": {
        "text/plain": [
          "str"
        ]
      },
      "execution_count": 9,
      "metadata": {},
      "output_type": "execute_result"
    }
  ],
  "source": [
    "type(z)"
  ]
}

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},
{
  "cell_type": "code",
  "execution_count": 10,
  "id": "c43a90c8",
  "metadata": {},
  "outputs": [
    {
      "data": {
        "text/plain": [
          "bool"
        ]
      },
      "execution_count": 10,
      "metadata": {},
      "output_type": "execute_result"
    }
  ],
  "source": [
    "type(True)"
  ]
},
{
  "cell_type": "code",
  "execution_count": 11,
  "id": "1ee5700b",
  "metadata": {},
  "outputs": [
    {
      "data": {
        "text/plain": [
          "bool"
        ]
      },
      "execution_count": 11,
      "metadata": {},
      "output_type": "execute_result"
    }
  ],
  "source": [
    "type(False)"
  ]
},
{
  "cell_type": "code",
  "execution_count": 12,
  "id": "bab745b9",
  "metadata": {},
  "outputs": [
    {
      "name": "stdout",
      "output_type": "stream",
      "text": [
        "2\n"
      ]
    }
  ]
}

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    ]
  }
],
"source": [
  "print(x)"
]
},
{
  "cell_type": "code",
  "execution_count": 13,
  "id": "46b30d83",
  "metadata": {},
  "outputs": [
    {
      "data": {
        "text/plain": [
          "6"
        ]
      },
      "execution_count": 13,
      "metadata": {},
      "output_type": "execute_result"
    }
  ],
  "source": [
    "x + 4"
  ]
},
{
  "cell_type": "code",
  "execution_count": 14,
  "id": "c9bff8a5",
  "metadata": {},
  "outputs": [
    {
      "data": {
        "text/plain": [
          "7.678"
        ]
      },
      "execution_count": 14,
      "metadata": {},
      "output_type": "execute_result"
    }
  ],
  "source": [
    "x + y"
  ]
},
{
  "cell_type": "code",
  "execution_count": 15,
  "id": "f1f477c1",
  "metadata": {},

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    "outputs": [],
    "source": [
        "x = x + 4"
    ]
},
{
    "cell_type": "code",
    "execution_count": 16,
    "id": "01cc1fad",
    "metadata": {},
    "outputs": [
        {
            "name": "stdout",
            "output_type": "stream",
            "text": [
                "6\n"
            ]
        }
    ],
    "source": [
        "print(x)"
    ]
},
{
    "cell_type": "code",
    "execution_count": 21,
    "id": "07e53f62",
    "metadata": {},
    "outputs": [],
    "source": [
        "a = 'Hello, '"
    ]
},
{
    "cell_type": "code",
    "execution_count": 18,
    "id": "63cef75e",
    "metadata": {},
    "outputs": [],
    "source": [
        "b = 'Marley'"
    ]
},
{
    "cell_type": "code",
    "execution_count": 22,
    "id": "4f89db7d",
    "metadata": {},
    "outputs": [
        {
            "data": {
                "text/plain": [
                    "'Hello, Marley'"
                ]
            }
        }
    ]
}

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    },
    "execution_count": 28,
    "metadata": {},
    "output_type": "execute_result"
  }
],
"source": [
  "x == y"
]
},
{
  "cell_type": "code",
  "execution_count": 29,
  "id": "68ff7556",
  "metadata": {},
  "outputs": [
    {
      "data": {
        "text/plain": [
          "bool"
        ]
      },
      "execution_count": 29,
      "metadata": {},
      "output_type": "execute_result"
    }
  ],
  "source": [
    "type (x == y)"
  ]
},
{
  "cell_type": "markdown",
  "id": "c24ff897",
  "metadata": {},
  "source": [
    "# 4.2 Task Steps"
  ]
},
{
  "cell_type": "code",
  "execution_count": 31,
  "id": "1f481269",
  "metadata": {},
  "outputs": [],
  "source": [
    "#Step 7 - addition and subtraction\n",
    "c = 55\n",
    "d = 45"
  ]
},
{
  "cell_type": "code",
  "execution_count": 32,

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    "id": "aa79a536",
    "metadata": {},
    "outputs": [
      {
        "data": {
          "text/plain": [
            "100"
          ]
        },
        "execution_count": 32,
        "metadata": {},
        "output_type": "execute_result"
      }
    ],
    "source": [
      "c + d"
    ]
  },
  {
    "cell_type": "code",
    "execution_count": 33,
    "id": "ebb195f6",
    "metadata": {},
    "outputs": [],
    "source": [
      "d = d + 55"
    ]
  },
  {
    "cell_type": "code",
    "execution_count": 34,
    "id": "f2bf3292",
    "metadata": {},
    "outputs": [
      {
        "name": "stdout",
        "output_type": "stream",
        "text": [
          "100\n"
        ]
      }
    ],
    "source": [
      "print(d)"
    ]
  },
  {
    "cell_type": "code",
    "execution_count": 35,
    "id": "87888ea2",
    "metadata": {},
    "outputs": [],
    "source": [
      "e = 155"
    ]
  }

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]
},
{
  "cell_type": "code",
  "execution_count": 36,
  "id": "47ad5692",
  "metadata": {},
  "outputs": [
    {
      "data": {
        "text/plain": [
          "100"
        ]
      },
      "execution_count": 36,
      "metadata": {},
      "output_type": "execute_result"
    }
  ],
  "source": [
    "e - c"
  ]
},
{
  "cell_type": "code",
  "execution_count": null,
  "id": "88215297",
  "metadata": {},
  "outputs": [],
  "source": [
    "#Step 8 - divide two floating variables"
  ]
},
{
  "cell_type": "code",
  "execution_count": 37,
  "id": "b759ab50",
  "metadata": {},
  "outputs": [],
  "source": [
    "f = 85.31\n",
    "g = 2.46"
  ]
},
{
  "cell_type": "code",
  "execution_count": 38,
  "id": "d9f89f98",
  "metadata": {},
  "outputs": [
    {
      "data": {
        "text/plain": [
          "34.67886178861789"
        ]
      }
    }
  ]
}

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    ]
    },
    "execution_count": 38,
    "metadata": {},
    "output_type": "execute_result"
  }
],
"source": [
  "f / g"
]
},
{
  "cell_type": "code",
  "execution_count": null,
  "id": "a163470a",
  "metadata": {},
  "outputs": [],
  "source": [
    "#Step 9 - Short word"
  ]
},
{
  "cell_type": "code",
  "execution_count": 39,
  "id": "99093666",
  "metadata": {},
  "outputs": [],
  "source": [
    "h = 'cup'\n",
    "i = 'cake'"
  ]
},
{
  "cell_type": "code",
  "execution_count": 40,
  "id": "f4da84e8",
  "metadata": {},
  "outputs": [
    {
      "data": {
        "text/plain": [
          "'cupcake'"
        ]
      },
      "execution_count": 40,
      "metadata": {},
      "output_type": "execute_result"
    }
  ],
  "source": [
    "h+i"
  ]
},
{

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"cell_type": "code",
"execution_count": null,
"id": "b74c8e14",
"metadata": {},
"outputs": [],
"source": [
    "#Step 10 - short sentences"
]
},
{
    "cell_type": "code",
    "execution_count": 41,
    "id": "8c5862bf",
    "metadata": {},
    "outputs": [],
    "source": [
        "j = 'hello, '\n",
        "k = 'how are you?'"
    ]
},
{
    "cell_type": "code",
    "execution_count": 42,
    "id": "bebd7ae1",
    "metadata": {},
    "outputs": [
        {
            "data": {
                "text/plain": [
                    "'hello, how are you?'"
                ]
            },
            "execution_count": 42,
            "metadata": {},
            "output_type": "execute_result"
        }
    ],
    "source": [
        "j+k"
    ]
},
{
    "cell_type": "code",
    "execution_count": 47,
    "id": "c0270f1e",
    "metadata": {},
    "outputs": [],
    "source": [
        "l = 'I love '\n",
        "m = 'my dog'"
    ]
},
{
    "cell_type": "code",

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```
    "metadata": {},
    "outputs": [],
    "source": []
  }
],
"metadata": {
  "kernel_spec": {
    "display_name": "Python 3 (ipykernel)",
    "language": "python",
    "name": "python3"
  },
  "language_info": {
    "codemirror_mode": {
      "name": "ipython",
      "version": 3
    },
    "file_extension": ".py",
    "mimetype": "text/x-python",
    "name": "python",
    "nbconvert_exporter": "python",
    "pygments_lexer": "ipython3",
    "version": "3.10.9"
  }
},
"nbformat": 4,
"nbformat_minor": 5
}
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