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    "      <td>0</td>\n",
    "    </tr>\n",
    "    <tr>\n",
    "      <th>9996</th>\n",
    "      <td>9997</td>\n
```

```

"      <td>15569892</td>\n",
"      <td>Johnstone</td>\n",
"      <td>516</td>\n",
"      <td>France</td>\n",
"      <td>Male</td>\n",
"      <td>35</td>\n",
"      <td>5.0</td>\n",
"      <td>57369.61</td>\n",
"      <td>1</td>\n",
"      <td>1</td>\n",
"      <td>1</td>\n",
"      <td>101699.77</td>\n",
"      <td>0</td>\n",
"    </tr>\n",
"    <tr>\n",
"      <th>9997</th>\n",
"      <td>9998</td>\n",
"      <td>15584532</td>\n",
"      <td>Liu</td>\n",
"      <td>709</td>\n",
"      <td>France</td>\n",
"      <td>Female</td>\n",
"      <td>36</td>\n",
"      <td>5.0</td>\n",
"      <td>0.00</td>\n",
"      <td>1</td>\n",
"      <td>0</td>\n",
"      <td>1</td>\n",
"      <td>42085.58</td>\n",
"      <td>1</td>\n",
"    </tr>\n",
"    <tr>\n",
"      <th>9998</th>\n",
"      <td>9999</td>\n",
"      <td>15682355</td>\n",
"      <td>Sabbatini</td>\n",
"      <td>772</td>\n",
"      <td>Germany</td>\n",
"      <td>Male</td>\n",
"      <td>42</td>\n",
"      <td>3.0</td>\n",
"      <td>75075.31</td>\n",
"      <td>2</td>\n",
"      <td>1</td>\n",
"      <td>0</td>\n",
"      <td>92888.52</td>\n",
"      <td>1</td>\n",
"    </tr>\n",
"    <tr>\n",
"      <th>9999</th>\n",
"      <td>10000</td>\n",
"      <td>15628319</td>\n",
"      <td>Walker</td>\n",
"      <td>792</td>\n",
"      <td>France</td>\n",
"      <td>Female</td>\n",
"      <td>28</td>\n",

```

```

"      <td>4.0</td>\n",
"      <td>130142.79</td>\n",
"      <td>1</td>\n",
"      <td>1</td>\n",
"      <td>0</td>\n",
"      <td>38190.78</td>\n",
"      <td>0</td>\n",
"    </tr>\n",
"  </tbody>\n",
"</table>\n",
"</div>"
],
"text/plain": [
"      RowNumber  CustomerId  Surname  CreditScore  Geography  Gender
Age  \\\n",
"      9995      9996      15606229  Obijiaku      771      France  Male
39  \n",
"      9996      9997      15569892  Johnstone      516      France  Male
35  \n",
"      9997      9998      15584532      Liu      709      France  Female
36  \n",
"      9998      9999      15682355  Sabbatini      772      Germany  Male
42  \n",
"      9999      10000      15628319      Walker      792      France  Female
28  \n",
"      \n",
"      Tenure      Balance  NumOfProducts  HasCrCard  IsActiveMember
\\\n",
"      9995      5.0      0.00      2      1      0
\n",
"      9996      5.0      57369.61      1      1      1
\n",
"      9997      5.0      0.00      1      0      1
\n",
"      9998      3.0      75075.31      2      1      0
\n",
"      9999      4.0      130142.79      1      1      0
\n",
"      \n",
"      EstimatedSalary  Exited  \n",
"      9995      96270.64      0  \n",
"      9996      101699.77      0  \n",
"      9997      42085.58      1  \n",
"      9998      92888.52      1  \n",
"      9999      38190.78      0  "
]
},
"execution_count": 14,
"metadata": {},
"output_type": "execute_result"
}
],
"source": [
"df.tail()"
]
},
{

```

```

"cell_type": "code",
"execution_count": 15,
"id": "cdb0395b",
"metadata": {},
"outputs": [],
"source": [
    "# 8.Split the data into dependent and independent variables"
]
},
{
    "cell_type": "code",
"execution_count": 16,
"id": "7f689bb8",
"metadata": {},
"outputs": [
    {
        "name": "stdout",
        "output_type": "stream",
        "text": [
            "[1 0 1 ... 1 1 0]\n"
        ]
    }
],
"source": [
    "# 8.1.Dependent Variables\n",
    "Y = df.iloc[:, -1].values\n",
    "print(Y)"
]
},
{
    "cell_type": "code",
"execution_count": 17,
"id": "50b5c6ef",
"metadata": {},
"outputs": [
    {
        "name": "stdout",
        "output_type": "stream",
        "text": [
            "[[1 15634602 'Hargrave' ... 1 1 101348.88]\n",
            " [2 15647311 'Hill' ... 0 1 112542.58]\n",
            " [3 15619304 'Onio' ... 1 0 113931.57]\n",
            " ... \n",
            " [9998 15584532 'Liu' ... 0 1 42085.58]\n",
            " [9999 15682355 'Sabbatini' ... 1 0 92888.52]\n",
            " [10000 15628319 'Walker' ... 1 0 38190.78]]\n"
        ]
    }
],
"source": [
    "# 8.2.Independent Variables\n",
    "X = df.iloc[:, :-1].values\n",
    "print(X)"
]
},
{
    "cell_type": "code",

```

```

"execution_count": 18,
"id": "a741c298",
"metadata": {},
"outputs": [
  {
    "name": "stdout",
    "output_type": "stream",
    "text": [
      "
      RowNumber  CustomerId      Surname  CreditScore  Geography  Gender
\\n",
      "0          1      15634602    Hargrave      619      France  Female
\\n",
      "1          2      15647311      Hill      608      Spain  Female
\\n",
      "2          3      15619304      Onio      502      France  Female
\\n",
      "3          4      15701354      Boni      699      France  Female
\\n",
      "4          5      15737888    Mitchell      850      Spain  Female
\\n",
      "...      ...      ...      ...      ...      ...
\\n",
      "9995      9996      15606229    Obijiaku      771      France  Male
\\n",
      "9996      9997      15569892    Johnstone      516      France  Male
\\n",
      "9997      9998      15584532      Liu      709      France  Female
\\n",
      "9998      9999      15682355    Sabbatini      772      Germany  Male
\\n",
      "9999      10000      15628319      Walker      792      France  Female
\\n",
      "\\n",
      "
      Age  Tenure      Balance  NumOfProducts  HasCrCard
IsActiveMember  \\n",
      "0      0.324324      0.4      0.00      1      1
1  \\n",
      "1      0.310811      0.2      83807.86      1      0
1  \\n",
      "2      0.324324      1.0      159660.80      3      1
0  \\n",
      "3      0.283784      0.2      0.00      2      0
0  \\n",
      "4      0.337838      0.4      125510.82      1      1
1  \\n",
      "...      ...      ...      ...      ...
...  \\n",
      "9995      0.283784      1.0      0.00      2      1
0  \\n",
      "9996      0.229730      1.0      57369.61      1      1
1  \\n",
      "9997      0.243243      1.0      0.00      1      0
1  \\n",
      "9998      0.324324      0.6      75075.31      2      1
0  \\n",
      "9999      0.135135      0.8      130142.79      1      1
0  \\n",

```



```

"\n",
"      EstimatedSalary  Exited  \n",
"0      101348.88      1  \n",
"1      112542.58      0  \n",
"2      113931.57      1  \n",
"3      93826.63      0  \n",
"4      79084.10      0  \n",
"...      ...      ...  \n",
"9995      96270.64      0  \n",
"9996      101699.77      0  \n",
"9997      42085.58      1  \n",
"9998      92888.52      1  \n",
"9999      38190.78      0  \n",
"\n",
"[10000 rows x 14 columns]\n"
]
}
],
"source": [
"#9.Scale the independent variables\n",
"from sklearn.preprocessing import MinMaxScaler\n",
"min_max_scaler = MinMaxScaler()\n",
"df[["Age", "Tenure"]] = min_max_scaler.fit_transform(df[["Age",
\"Tenure\"]])\n",
"print(df)"
]
},
{
"cell_type": "code",
"execution_count": 19,
"id": "035b8f1c",
"metadata": {},
"outputs": [
{
"name": "stdout",
"output_type": "stream",
"text": [
"      RowNumber  CustomerId      Surname  CreditScore  Geography
Gender  \\ \n",
"3555      3556      15629094      Fomin      528      France
Female  \n",
"4078      4079      15690440      Stiles      656      Spain
Male  \n",
"8445      8446      15678333  Parry-Okeden      683      France
Female  \n",
"5939      5940      15709861      He      766      Germany
Male  \n",
"5583      5584      15620579      Dunn      695      Spain
Female  \n",
"...      ...      ...      ...      ...
...  \n",
"805      806      15756026      Hooper      790      Spain
Female  \n",
"4169      4170      15716728      Basedow      513      Spain
Female  \n",
"588      589      15614782      Hao      526      France
Male  \n",

```

	"6968	6969	15721793	Chiu	510	Germany
Female	\n",					
	"2547	2548	15634772	Mario	682	Spain
Female	\n",					
	"\n",					

		Age	Tenure	Balance	NumOfProducts	HasCrCard
IsActiveMember	\\n",					
	"3555	0.243243	0.2	156948.41	1	1
1	\n",					
	"4078	0.391892	0.2	0.00	2	1
1	\n",					
	"8445	0.108108	1.0	0.00	2	1
0	\n",					
	"5939	0.162162	0.8	127786.28	2	1
1	\n",					
	"5583	0.175676	1.0	0.00	2	0
1	\n",					
	"...
...	\n",					
	"805	0.378378	1.0	0.00	1	0
0	\n",					
	"4169	0.324324	1.0	0.00	2	0
1	\n",					
	"588	0.243243	0.2	0.00	1	1
0	\n",					
	"6968	0.432432	1.0	123936.54	1	1
1	\n",					
	"2547	0.554054	0.0	122661.39	1	0
1	\n",					
	"\n",					
	"	EstimatedSalary	Exited	\n",		
	"3555	149912.28	1	\n",		
	"4078	197961.93	0	\n",		
	"8445	86619.77	0	\n",		
	"5939	28879.30	0	\n",		
	"5583	131644.41	0	\n",		
	"...	\n",		
	"805	14679.81	1	\n",		
	"4169	73151.25	0	\n",		
	"588	160696.72	0	\n",		
	"6968	23768.01	0	\n",		
	"2547	84803.76	0	\n",		
	"\n",					
	"[8000 rows x 14 columns]\n"					

```

]
}
],
"source": [
  "# 10.Split the data into training and testing\n",
  "training_data = df.sample(frac=0.8, random_state=25)\n",
  "testing_data = df.drop(training_data.index)\n",
  "print(training_data)"
]
},
{
  "cell_type": "code",
  "execution_count": 20,

```

```

    "id": "aa0e3b0b",
    "metadata": {},
    "outputs": [
      {
        "name": "stdout",
        "output_type": "stream",
        "text": [
          "
          RowNumber  CustomerId  Surname  CreditScore  Geography  Gender
\\n",
          "8          9      15792365      He          501      France  Male
\n",
          "14         15      15600882      Scott        635      Spain  Female
\n",
          "23         24      15725737      Mosman       669      France  Male
\n",
          "25         26      15738191      Maclean      577      France  Male
\n",
          "26         27      15736816      Young       756      Germany  Male
\n",
          "...         ...      ...          ...          ...      ...
\n",
          "9954        9955      15739850      Trentino     645      France  Male
\n",
          "9959        9960      15677783      Graham      764      Spain  Male
\n",
          "9986        9987      15581736      Bartlett    673      Germany  Male
\n",
          "9988        9989      15589329      Pirozzi     775      France  Male
\n",
          "9995        9996      15606229      Obijiaku    771      France  Male
\n",
          "\n",
          "
          Age  Tenure  Balance  NumOfProducts  HasCrCard
IsActiveMember  \\n",
          "8      0.351351  0.8  142051.07  2  0
1  \n",
          "14     0.229730  1.0    0.00  2  1
1  \n",
          "23     0.378378  0.6    0.00  2  0
1  \n",
          "25     0.094595  0.6    0.00  2  0
1  \n",
          "26     0.243243  0.4  136815.64  1  1
1  \n",
          "...         ...      ...          ...          ...
...  \n",
          "9954    0.364865  1.0  155417.61  1  0
1  \n",
          "9959    0.270270  0.8  113607.47  1  1
0  \n",
          "9986    0.391892  0.2  183579.54  2  0
1  \n",
          "9988    0.162162  0.8    0.00  2  1
0  \n",
          "9995    0.283784  1.0    0.00  2  1
0  \n",
          "\n",

```

```

        "      EstimatedSalary  Exited  \n",
        "8          74940.50        0  \n",
        "14          65951.65        0  \n",
        "23          8487.75         0  \n",
        "25         124508.29         0  \n",
        "26         170041.95         0  \n",
        "...          ...          ...  \n",
        "9954          3449.22         0  \n",
        "9959          91094.46        0  \n",
        "9986          34047.54        0  \n",
        "9988          49337.84        0  \n",
        "9995          96270.64        0  \n",
        "\n",
        "[2000 rows x 14 columns]\n"
    ]
}
],
"source": [
    "print(testing_data)"
]
}
],
"metadata": {
    "kernelspec": {
        "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": "3.9.12"
    }
},
"nbformat": 4,
"nbformat_minor": 5
}

```