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findings\n",
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                                 A 4 4 at_home teacher ... \n",
   "1
       GP F 17
                         GT3
                                 Т
                     U
                                     1 1 at home other ... \n",
                                 T 1 1 at_home other ... \n",
   "2
       GP F 15
                     U LE3
   "3
       GP F 15
                                 T 4 2 health services ... \n",
                     U
                         GT3
   "4
       GP F 16
                     U
                         GT3
                                 Т
                                     3
                                         3 other
                                                    other ... \n",
   "\n",
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   "1
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   "[5 rows x 33 columns]\n"
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 ],
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```

```
"#importing necessery lib\n",
 "import pandas as pd\n",
 "import numpy as np\n",
 " \n",
 "#load the dataset\n",
 "df=pd.read_csv(r\"C:\\Users\\ajayc\\Downloads\\student\\student-mat.csv\", sep=\";\")\n",
 "#display 5 rows\n",
 "print(df.head())\n",
 "\n"
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```

```
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 "#to Check for missing values \n",
 "print(df.isnull().sum())\n",
 "# to Display column data types \n",
 "print(df.dtypes)\n",
 "#to Understand the dataset's size \n",
 "print(df.shape)"
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  " 10 reason
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```

```
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                              int64 \n",
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                          GT3
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             3
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                                     4 6 10 10 \n",
  "\n".
  "[5 rows x 33 columns]\n"
 ]
}
],
```

```
"source": [
 "# Fill numeric columns with the median\n",
 "num_cols = df.select_dtypes(include=['number']).columns\n",
 "df[num cols] = df[num cols].fillna(df[num cols].median())\n",
 "\n".
 "# Fill categorical columns with the most frequent value (mode)\n",
 "cat_cols = df.select_dtypes(include=['object']).columns\n",
 "df[cat_cols] = df[cat_cols].apply(lambda x: x.fillna(x.mode()[0]))\n",
 "\n",
 "# Removing duplicate rows\n",
 "df.drop duplicates(inplace=True)\n",
 "\n",
 "# Display cleaned dataset information\n",
 "print(\"Cleaned DataFrame:\")\n",
 "print(df.info()) # Shows dataset summary\n",
 "print(df.head()) # Displays the first few rows\n"
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  "\n",
  "Average G3 by Gender:\n",
  "sex\n",
  "F 9.966346\n",
  "M 10.914439\n",
  "Name: G3, dtype: float64\n"
 ]
}
"source": [
 "#Average Score in Math (G3)\n",
```

```
"average G3=df[\"G3\"].mean()\n",
 "print(f\"\\nAverage final grade (G3):{average_G3:.2f}\")\n",
 "\n",
 "#Count students scoring above 15 in G3\n",
 "students above 15=df[df[\G3\] > 15].shape[0]\n",
 "print(f\"Number of students scoring above 15:{students_above_15}\")\n",
 "\n",
 "#Correlation between Study Time and Final Grade (G3)\n",
 "correlation=df[\"studytime\"].corr(df[\"G3\"])\n",
 "print(f\"Correlation between Study Time and G3:{correlation:.2f\\")\n",
 "\n",
 "#Compare Average G3 Scores by Gender\n",
 "avg_G3_by_gender=df.groupby(\"sex\")[\"G3\"].mean()\n",
 "print(\"\\nAverage G3 by Gender:\")\n",
 "print(avg_G3_by_gender)\n"
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