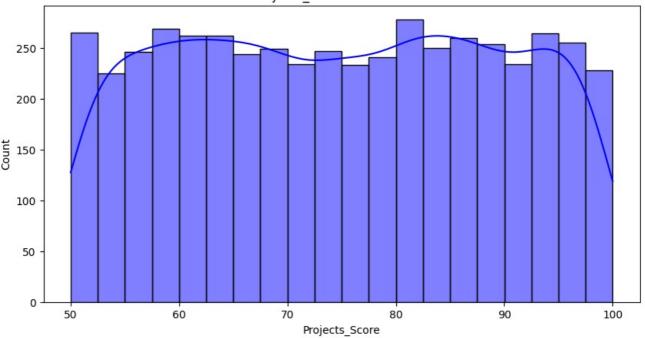
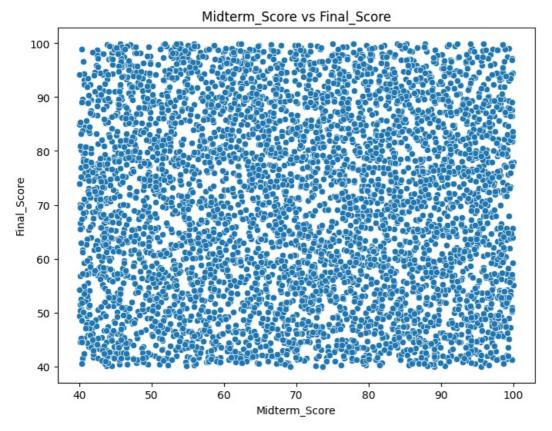
Projects_Scores Distribution



```
In [9]: plt.figure(figsize=(8,6))
    sb.scatterplot(x=data5["Midterm_Score"],y=data5["Final_Score"])
    plt.title("Midterm_Score vs Final_Score")
    plt.xlabel("Midterm_Score")
    plt.ylabel("Final_Score")
    plt.show
```

Out[9]: <function matplotlib.pyplot.show(close=None, block=None)>



```
In [12]: #convert column names to remove leading/trailing spaces
data5.columns = data5.columns.str.strip()

#check column data types
print("Data Types:\n", data5.dtypes)

#select only numeric columns
numeric_data = data5.select_dtypes(include=['number'])#only keeps numeric_columns

#prints columns that were removed (if any)
non_numeric_columns = set(data5.columns) -set(numeric_data.columns)
print("Removed non-numeric columns:", non_numeric_columns)

if not numeric_data.empty:
    plt.figure(figsize=(8,5))
    sb.heatmap(numeric_data.corr(), annot=True, cmap="coolwarm",linewidths=0.5 )
    plt.title("Correlation Heatmap")
    plt.show
else:
    print("No numeric columns available for correlation.")
```

Data Types:	
Student_ID	object
First_Name	object
Last_Name	object
Email	object
Gender	object
Age	int64
Department	object
Attendance (%)	float64
Midterm_Score	float64
Final_Score	float64
Assignments_Avg	float64
Quizzes_Avg	float64
Participation_Score	float64
Projects_Score	float64
Total_Score	float64
Grade	object
Study_Hours_per_Week	float64
Extracurricular_Activities	object
<pre>Internet_Access_at_Home</pre>	object
Parent_Education_Level	object
Family_Income_Level	object
Stress_Level (1-10)	int64
Sleep_Hours_per_Night	float64
dtype: object	

Removed non-numeric columns: {'Internet_Access_at_Home', 'Family_Income_Level', 'Extracurricular_Activities', 'First_Name', 'Last_Name', 'Student_ID', 'Grade', 'Email', 'Gender', 'Department', 'Parent_Education_Level'}

