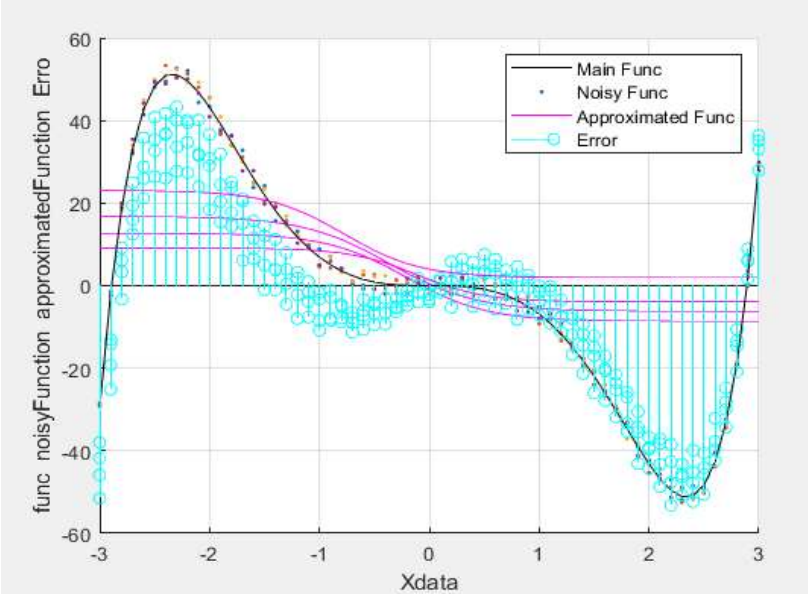
RESULTS:



Function approximation with WAVELETs in MATLAB involves graphical representation.

- Here, black line represents main function .
- Pink lie represents approximated function.
- Blue points represents error.
- The dots around main function are considered as noise.

```
Input : 00    Predicted Output : 0.998725   Output : 0  error : -0.998725
Input : 11    Predicted Output : 0.999388   Output : 1  error : 0.000612443
Input : 10    Predicted Output : 0.998973   Output : 1  error : 0.00102651
Input : 01    Predicted Output : 0.999314   Output : 0  error : -0.999314
Input : 11    Predicted Output : 0.999388   Output : 1  error : 0.000612191
Input : 00    Predicted Output : 0.998726   Output : 0  error : -0.998726
Input : 10    Predicted Output : 0.998975   Output : 1  error : 0.00102544
Input : 11    Predicted Output : 0.999388   Output : 1  error : 0.000611775
Input : 10    Predicted Output : 0.998975   Output : 1  error : 0.00102544
Input : 00    Predicted Output : 0.998727   Output : 0  error : -0.998727
Input : 01    Predicted Output : 0.999315   Output : 0  error : -0.999315
Input : 10    Predicted Output : 0.998976   Output : 1  error : 0.00102437
Input : 00    Predicted Output : 0.998728   Output : 0  error : -0.998728
Input : 11    Predicted Output : 0.999389   Output : 1  error : 0.000610694
Input : 01    Predicted Output : 0.999316   Output : 0  error : -0.999316
Input : 11    Predicted Output : 0.99939    Output : 1  error : 0.000610443
Input : 00    Predicted Output : 0.99873    Output : 0  error : -0.99873
Input : 01    Predicted Output : 0.999317   Output : 0  error : -0.999317
Input : 10    Predicted Output : 0.998978   Output : 1  error : 0.00102223
final hidden weights
[0.0663511.730388][0.6076850.802606]]
final hidden biases
[1.3205791.201734final output weights
[2.3099122.118421]]
final output biases
[3.216240]

--------------------------------
Process exited after 4.388 seconds with return value 0
Press any key to continue . . .
- Warnings: 0
- Output Filename: C:\Users\ARCHANA MENDA\Desktop\wavelet.exe
- Output Size: 137.6572265625 KiB
- Compilation Time: 0.39s
```

Function approximation with MLPs in DEV C++involves preparation, training an MLP to learn the function, and deploying the model for predictions, potentially fine-tuning for better accuracy.

Here error value is represented as difference between actual and predicted values based on MLP training by randomly providing input values.