EX.NO.: 13

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LANGUAGE DETECTION PROGRAM USING LANGID FOR MULTIPLE LANGUAGES

To implement a Python program using the langid library to detect the language of a given text and specify it for five different languages: English, French, Spanish, German, and Hindi.

PROCEDURE:

- 1. Open the terminal or command prompt and install the langid library using:
 - > pip install langid
- 2. Import the langid module to perform language detection.
- 3. Create a function detect language(text) to:
 - > Use langid.classify() to identify the language of the input text.
- 4. Define sample text in five different languages (English, French, Spanish, German, and Hindi) for testing the program.
- 5. Iterate through the list of sample texts, passing each to the language detection function.
- 6. Print the detected language and the confidence level for each text.
- 7. Show the input text, detected language, and confidence percentage for each test.

CODE AND OUTPUT

```
import langid
def detect language(text):
   lang code, confidence = langid.classify(text)
    language names = {
       "fr": "French",
   detected language = language names.get(lang code, "Unknown Language")
    return detected language, confidence
sample texts = [
    "Hola, ¿cómo estás?", # Spanish
    "नमस्ते, आप कैसे हैं?" # Hindi
for text in sample texts:
   language, confidence = detect language(text)
   print(f"Text: {text}")
   print(f"Detected Language: {language} (Confidence: {confidence * 100:.2f}%)\n")
```

Text: Hello, how are you? Detected Language: English (Confidence: -1874.12%)
Text: Bonjour, comment ça va? Detected Language: French (Confidence: -7168.32%)
Text: Hola, ¿cómo estás? Detected Language: Unknown Language (Confidence: -8669.46%)
Text: Hallo, wie geht es Ihnen? Detected Language: German (Confidence: -8319.51%)
Text: नमस्ते, आप कैसे हैं? Detected Language: Hindi (Confidence: -12149.33%)