

```
In [4]: import re

def regex_validator():
    regex_pattern = input("Enter a regular expression: ")
    sample_text = input("Enter a sample text: ")

    try:
        regex = re.compile(regex_pattern)
        matches = regex.finditer(sample_text)

        print("Matched portions:")
        for match in matches:
            start, end = match.span()
            matched_text = sample_text[start:end]
            highlighted_text = f"\033[1;32m{matched_text}\033[m"
            formatted_text = sample_text[:start] + highlighted_text + sample_text[end:]
            print(formatted_text)

    except re.error:
        print("Invalid regular expression!")

if __name__ == "__main__":
    regex_validator()
```

Enter a regular expression: \d+

Enter a sample text: There are 123 apples and 456 bananas.

Matched portions:

There are **123** apples and 456 bananas.

There are 123 apples and **456** bananas.

In []: