



The image shows a screenshot of a code editor interface. The top menu bar includes 'File', 'Edit', 'View', 'Insert', 'Runtime', 'Tools', and 'Help'. Below the menu bar, there is a search bar labeled 'Commands' and buttons for '+ Code', '+ Text', and 'Run all'. On the right side of the editor, there are status indicators for 'RAM' and 'Disk', and a 'Share' button. The main editing area contains the following Python code:

```
import random
from collections import defaultdict

def build_markov_chain(text, order=1):
    words = text.split()
    chain = defaultdict(list)

    for i in range(len(words) - order):
        key = tuple(words[i:i+order])
        next_word = words[i + order]
        chain[key].append(next_word)

    return chain

def generate_text(chain, start, length=20):
    current = start
    output = list(current)

    for _ in range(length):
        next_words = chain.get(current)
        if not next_words:
            break
        next_word = random.choice(next_words)
        output.append(next_word)
        current = tuple(output[-len(current):])

    return ' '.join(output)
```

```
File Edit View Insert Runtime Tools Help
Commands + Code + Text ▶ Run all
current = start
output = list(current)

for _ in range(length):
    next_words = chain.get(current)
    if not next_words:
        break
    next_word = random.choice(next_words)
    output.append(next_word)
    current = tuple(output[-len(current):])

return ' '.join(output)

# Example usage:
text = "I like pizza. I like pasta. I love eating pizza and pasta."
chain = build_markov_chain(text, order=1)
start = ("I",)
generated = generate_text(chain, start, length=15)
print(generated)

I like pasta. I like pizza. I like pasta. I like pasta. I love eating pizza
```