ChatGPT can generate code, but one could achieve the end objective without code!

Example – email body extraction with a prompt instead of a manually written regex function

Original email

```
From: maynard@ramsey.cs.laurentian.ca (Roger Maynard)
Subject: Re: Jack Morris
Organization: Dept. Of Computer Science, Laurentian University, Sudbury, ON
Lines: 40

In <1qvag7INNsvp@lynx.unm.edu> kbos@carina.unm.edu (K. Mitchell Bose) writes:

>In article <1993Apr10.214008.8199@ramsey.cs.laurentian.ca> maynard@ramsey.cs.laurentian.ca
>>
>>>Manuel Lee is better than Jeff Blauser.
>>
>>Again, if you had Lee on your team last year you would be wearing a ring
>>this year.
>>
>Er..no.

Er..yes.  If Manny Lee was on your team last year, your team would have been
the Toronto Blue Jays.

>_My_ team is the Albuquerque Leftturns.  If Manny Lee were on my team, I would
>not be wearing a ring.  Nor would he.  If, however, I were on Manny Lee's team,

Again.  If Manny Lee was on your team last year your team would not have been
the Albuquerque Leftturns.  It would have been the Toronto Blue Jays.

>the Toronto Blue Jays, I might well be wearing a ring.  (Not that that's such
>a big deal...everybody got a WS ring from the Jays win.)

That's the whole point isn't it?  Clemens didn't get a ring but Morris did.

>In the same way, the Blue Jays did not win because Jack Morris was on the team.
>Jack Morris won because he was on the Blue Jays.  It was a team effort, not
>an individual one.

Exactly.  And Morris was part of the team.  Would the Jays have won with
Clemens?  We will never know.  But we do know that the Jays won with Morris.
So how could you possibly say that Clemens had a better year?  No pitcher
in baseball could have had a better year than Morris had last year.


--

cordially, as always,                    maynard@ramsey.cs.laurentian.ca
                                         "So many morons...
rm                                                ...and so little time."
```

Regex function and text extracted

```
def removeUninformative(text):
  import re
  next_text = re.sub(r'[A-Za-z0-9.]*@[A-Za-z0-9.]*', "", text)#email adress
  next_text = re.sub(r'^From:.*', "", next_text, flags=re.M)#From line completely
  next_text = re.sub(r'^Organization:.*', "", next_text, flags=re.M)#Organization line completely
  next_text = re.sub(r'Re:', "", next_text)#Just the tag
  next_text = re.sub(r'Subject:', "", next_text)#Just the tag
  return next_text
```

```
Jack Morris
Lines: 40
In <> (K. Mitchell Bose) writes:
>In article <> (Roger Maynard) writes:
>>
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>an individual one.
Exactly.  And Morris was part of the team.  Would the Jays have won with
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So how could you possibly say that Clemens had a better year?  No pitcher
in baseball could have had a better year than Morris had last year.
--
cordially, as always,
                                         "So many morons...
rm                                                ...and so little time."
```

ChatGPT prompt and output

```
prompt = f"""
Ignore side arrows
Extract the body of the email below.
Discard all header and footer information.
email: ```{email}```
"""
response = get_completion(prompt)
print(response)
```

```
In <[email protected]> [email protected] (K. Mitchell Bose) writes:

>In article <[email protected]> [email protected] (Roger Maynard) writes:
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```

```
prompt = f"""
Identify the following items from the story below:
- Sentiment (positive or negative)
- The sport being discussed
- The topic of the story
- A list of all the sportsmen mentioned at least once
- A list of the countries these sportsmen represented
- A list of all the teams written about
- Who won the game?

The review is delimited with triple backticks. Format your response as a JSON object with \
"Sentiment", "Sport", "Topic", "Sportsmen", "Countries" , "Teams" and "Winner" as the keys.
If the information isn't present, use "unknown" \
as the value.
Make your response as short as possible.

Review text: ```{cricket_story}```
"""
response = get_completion(prompt)
print(response)
```

```
{
    "Sentiment": "negative",
    "Sport": "Cricket",
    "Topic": "Altercation between Virat Kohli, Gautam Gambhir and Naveen-ul-Haq during IPL match",
    "Sportsmen": ["Virat Kohli", "Gautam Gambhir", "Naveen-ul-Haq", "Shahid Afridi"],
    "Countries": ["India", "Afghanistan", "Pakistan"],
    "Teams": ["Royal Challengers Bangalore", "Lucknow Super Giants", "Chennai Super Kings"],
    "Winner": "Royal Challengers Bangalore"
```

Example – a single prompt equals multiple programs and no labelled training data or pretrained models: Multiple NLP solutions, would have to be programmed, each with dedicated training data, to perform all the following tasks that just one prompt did!

1. Text classification (cricket) & sentiment analysis
2. Topic modelling: The altercation
3. Entity extraction: Sportsmen, countries represented, their teams
4. Inference: The game's result

Ref: The story analysed is from BBC and is here