```
In [ ]:  # for security reasons my token is hidden :)
         from my_token import MY_TOKEN
```

```
In [ ]:  # last time we stopped here
         import telebot
         bot = telebot.TeleBot(MY_TOKEN)

         @bot.message_handler(commands=['start'])
         def start_message(message):
             bot.send_message(message.chat.id, "let's start")

         @bot.message_handler(content_types=['text'])
         def send_text(message):
             if message.text.lower() == 'hi':
                 bot.send_message(message.chat.id, 'Good day')
             elif message.text == 'bye':
                 bot.send_message(message.chat.id, 'cya')
             else:
                 bot.send_message(message.chat.id, 'try again')

         bot.polling()
```

```
In [ ]:  # now let's extend functionality of our bot
         # let's teach to return sum of numbers provided with 'sum' keyword
         @bot.message_handler(content_types=['text'])
         def send_text(message):
             if message.text.lower() == 'hi':
                 bot.send_message(message.chat.id, 'Good day')
             elif message.text == 'bye':
                 bot.send_message(message.chat.id, 'cya')
             elif message.text.startswith('sum'):
                 reply = count_sum(message.text)
                 bot.send_message(message.chat.id, reply)
             else:
                 bot.send_message(message.chat.id, 'try again')

         # no need to run this code
```

```
In [ ]:  # create new function to count sums and
         def count_sum(s):
             arr = s.split()
             s = 0
             for i in arr[1:]:
                 s = s + int(i)
             return 'the sum is ' + str(s)
         # no need to run this code
```

```
In [ ]:  # you will get something like this
         import telebot
         bot = telebot.TeleBot(MY_TOKEN)

         @bot.message_handler(commands=['start'])
         def start_message(message):
             bot.send_message(message.chat.id, "let's start")

         @bot.message_handler(content_types=['text'])
         def send_text(message):
             if message.text.lower() == 'hi':
                 bot.send_message(message.chat.id, 'Good day')
             elif message.text == 'bye':
                 bot.send_message(message.chat.id, 'cya')
             elif message.text.startswith('sum'):
                 reply = count_sum(message.text)
                 bot.send_message(message.chat.id, reply)
             else:
                 bot.send_message(message.chat.id, 'try again')

             # create new function to count sums and
         def count_sum(s):
             arr = s.split()
             s = 0
             for i in arr[1:]:
                 s = s + int(i)
             return 'the sum is ' + str(s)

         bot.polling()
```

```python
# now let's extend functionality of our bot
# let's teach to return sum of numbers provided with 'sum' keyword
@bot.message_handler(content_types=['text'])
def send_text(message):
    if message.text.lower() == 'hi':
        bot.send_message(message.chat.id, 'Good day')
    elif message.text == 'bye':
        bot.send_message(message.chat.id, 'cya')
    elif message.text.startswith('sum'):
        reply = count_sum(message.text)
        bot.send_message(message.chat.id, reply)
    elif message.text.startswith('search'):
        reply = search_word(message.text)
        bot.send_message(message.chat.id, reply)
    elif message.text.startswith('dec2bin'):
        reply = dec2bin(message.text)
        bot.send_message(message.chat.id, reply)
    else:
        bot.send_message(message.chat.id, 'try again')
```

```python
def search_word(s):
    s = [i for i in s.split(' ') if i][1]
    txt = 'my_shared_data_folder/essay1.txt'
    c = 0
    for line in open (txt):
        c += line.count(s)
    return f'{s} word occures {c} times in the text'
```

```python

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```python
bot.polling()
```

```python
def dec2bin(text):
    dec = text.split(' ')[1]
    dec = int(dec)
    bin = ''
    while dec > 0:
        h, dec = dec % 2, dec // 2
        bin = str(h) + bin
    return bin
```

```python
dec2bin('text 10')
```

```python
x = 122
while 123 %x != 45:
    x = x -1
print (x)
```

```python

```