```
from transformers import pipeline
sentiment_analyzer = pipeline("sentiment-analysis")
text = "I am feeling happy"
sentiment_result = sentiment_analyzer(text)
print("Sentiment analysis:")
print(f"Sentiment: {sentiment_result[0]['label']} (score: {sentiment_result[0]}
```

No model was supplied, defaulted to distilbert/distilbert-base-uncased-fi Using a pipeline without specifying a model name and revision in producti /usr/local/lib/python3.11/dist-packages/huggingface_hub/utils/_auth.py:94 The secret `HF_TOKEN` does not exist in your Colab secrets.

To authenticate with the Hugging Face Hub, create a token in your setting You will be able to reuse this secret in all of your notebooks.

Please note that authentication is recommended but still optional to acce warnings.warn(

config.json: 100% 629/629 [00:00<00:00, 14.4kB/s]

model.safetensors: 100% 268M/268M [00:02<00:00, 151MB/s]

tokenizer_config.json: 100% 48.0/48.0 [00:00<00:00, 4.70kB/s]

vocab.txt: 232k/? [00:00<00:00, 1.57MB/s]

Device set to use cpu Sentiment analysis:

Sentiment: POSITIVE (score: 1.00)

```
from transformers import pipeline
translator_en_to_fr = pipeline("translation_en_to_fr", model="Helsinki-NLP/opus
text = "I am feeling happy"
translation_result = translator_en_to_fr(text)
print("Translation:")
print(f"Translated text: {translation_result[0]['translation_text']}\n")
```

1.42h/? [00:00<00:00, 32.3h8/s] config.json: pytorch_model.bin: 100% 301M/301M [00:02<00:00, 98.3MB/s] model.safetensors: 100% 301M/301M [00:02<00:00, 180MB/s] 293/293 [00:00<00:00, 9.66kB/s] generation_config.json: 100% tokenizer_config.json: 100% 42.0/42.0 [00:00<00:00, 1.55kB/s] source.spm: 100% 778k/778k [00:00<00:00, 9.20MB/s] target.spm: 100% 802h/802h [00:00<00:00, 16.4MB/s] vocab.json: 1.34M/? [00:00<00:00, 25.6M8/s] /usr/local/lib/python3.11/dist-packages/transformers/models/marian/tokeni warnings.warn("Recommended: pip install sacremoses.") Device set to use cpu

Translation:

Translated text: Je me sens heureux.

```
!pip install pytesseract
Collecting pytesseract
 Downloading pytesseract-0.3.13-py3-none-any.whl.metadata (11 kB)
Requirement already satisfied: packaging>=21.3 in /usr/local/lib/python3.
Requirement already satisfied: Pillow>=8.0.0 in /usr/local/lib/python3.11
Downloading pytesseract-0.3.13-py3-none-any.whl (14 kB)
Installing collected packages: pytesseract
Successfully installed pytesseract-0.3.13
```

import pytesseract from PIL import Image from transformers import pipeline

```
import re
input_image = Image.open('/content/5.1.png')
text output = pytesseract.image to string(input image, lang='eng').strip()
clean_text = re.sub(r"\s+,", ",", text_output)
print(clean text)
{import random
def (x)
```

```
return x02 4 40%
def hill_climbing(f, start_point, step_siz
1, max_dterations=100
current_point = start_poind]
current value
#(current_point)
for _ in range(max_iterations):
neighbors
'current_point - step_size, current_point + step_size]
neightor_values = [F(neighbor) for neighbor in neighbors]
best_value = max(neighbor_values)
bbest_neighbor = neighbors{neightor_values. index(best_value)]
Af best_value > current_value:
'current_point = best_neighbor
current_value = best_value
else:
break
return current_point, current_value
start_point = candon.unsform(2,5)
optinal_x, optinal_velue = hill_clinbing(f, etart_point)
print(#"optinal x: (optinal_x)")
print(#"Maximum value of f(x): (optimal_value)")
```

```
image = Image.open('/content/5.1.png')
extracted_text = pytesseract.image_to_string(image).strip()
```

```
if not extracted_text:
  print("No text found in the image.")
else:
  print(f"Extracted text: {extracted_text}")
  sentiment_analyzer=pipeline("sentiment-analysis")
  sentiment_result=sentiment_analyzer(extracted_text)[0]
  #print("Sentiment analysis:")
  #print(f"Text: {extracted text}")
  print(f"Sentiment: {sentiment_result['label']} (score: {sentiment_result['scote']}
No model was supplied, defaulted to distilbert/distilbert-base-uncased-1
Using a pipeline without specifying a model name and revision in product
Extracted text: {import random
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return x02 4 40%
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bbest_neighbor = neighbors{neightor_values. index(best_value)]
Af best_value > current_value:
'current_point = best_neighbor
current value = best value
```

```
else:
break

return current_point, current_value

start_point = candon.unsform(2,5)

optinal_x, optinal_velue = hill_clinbing(f, etart_point)

print(#"optinal x: (optinal_x)")
```