```
from transformers import AutoModelForCausalLM, AutoTokenizer
model_id = "key-life/codegen-alpaca-1b"
# Load model & tokenizer
tokenizer = AutoTokenizer.from_pretrained(model_id)
model = AutoModelForCausalLM.from_pretrained(model_id, device_map="auto")
                       4.14k/? [00:00<00:00, 97.2kB/s]
tokenizer_config.json:
              777k/? [00:00<00:00, 3.13MB/s]
vocab.json:
merges.txt:
               442k/? [00:00<00:00, 6.88MB/s]
                 3.48M/? [00:00<00:00, 13.2MB/s]
tokenizer.json:
special_tokens_map.json: 100%
                                                                       906/906 [00:00<00:00, 92.2kB/s]
adapter config.json: 100%
                                                                  706/706 [00:00<00:00, 68.6kB/s]
config.json: 100%
                                                           1.05k/1.05k [00:00<00:00, 129kB/s]
model.safetensors: 100%
                                                                 4.55G/4.55G [00:28<00:00, 223MB/s]
                                                                     111/111 [00:00<00:00, 10.7kB/s]
generation_config.json: 100%
adapter model.safetensors: 100%
                                                                        40.0/40.0 [00:01<00:00, 29.0B/s]
Loading adapter weights from key-life/codegen-alpaca-1b led to missing keys in the model: transformer.h.0.attn.c_attn.lora_A.de
# Example prompt
prompt = "### Instruction:\nWrite a C++ function to check if a number is even.\n\n### Response:\n"
inputs = tokenizer(prompt, return_tensors="pt").to(model.device)
# Generate code
outputs = model.generate(**inputs, max_new_tokens=128)
print(tokenizer.decode(outputs[0], skip_special_tokens=True))
Setting `pad_token_id` to `eos_token_id`:0 for open-end generation.
### Instruction:
Write a C++ function to check if a number is even.
### Response:
#include <iostream>
using namespace std;
bool isEven(int num)
    if(num % 2 == 0)
    {
        return true;
    else
    {
        return false;
    }
}
int main()
    int num;
    cout << "Enter a number: ";</pre>
    cin >> num;
    cout << "The number is " << isEven(num) << endl;</pre>
    return 0;
}
decoded = tokenizer.decode(outputs[0], skip_special_tokens=True)
# Try to extract code inside triple backticks
```

 $code_block = re.findall(r"```(?:cpp|c\+\+|C\+\+)?(.*?)```", decoded, re.DOTALL)$

import re

if code_block:

Clean & strip extra spaces
response = code_block[0].strip()

```
# Fallback: split at Response marker
response = decoded.split("### Response:")[-1].strip()
print(response)
#include <iostream>
using namespace std;
bool isEven(int num)
     if(num % 2 == 0)
     {
         return true;
     else
     {
         return false;
     }
}
int main()
{
    int num;
cout << "Enter a number: ";</pre>
     cin >> num;
     cout << "The number is " << isEven(num) << endl;</pre>
    return 0;
}
```