Try for a baseline (for out-of-the-box, pretrained model)

Just one summarization to begin with, randomly picked

```
In [73]: # Just one summarization to begin with, randomly picked ... but
         #+ now with th possibility of a known seed, to allow visual
         #+ comparison with after-training results.
         #+ I'M NOT GOING TO USE THIS REPEATED SEED, I'm just going to
         #+ use the datum at the first index to compare.
         do_seed_for_repeatable = True
         summarizer = pipeline('summarization',
                               model=model,
                               tokenizer=tokenizer)
         if do_seed_for_repeatable:
             rand seed for randrange = 137
             random.seed(rand_seed_for_randrange)
         ##endof: if do_seed_for_repeatable
         sample = dataset['test'][randrange(len(dataset["test"]))]
         print(f"dialogue: \n{sample['dialogue']}\n----")
         res = summarizer(sample["dialogue"])
         print(f"flan-t5-small summary:\n{res[0]['summary_text']}")
```

dialogue:

Jayden: But I don't need kids. Kids means over. At least for a woman

Brennan: Over what ?

Jayden: The end of normal life. Being pregnant, suffering because of this etc

Brennan: Hmm so I need to look for another mother to my kids then. Haha

Jayden: Being obligated to be with the. 24h. Men have only sex and they wait for kid

s while women suffer
Brennan: I don't agree...

Jayden: I wish I could do the same. Then probably i would say the same like u.

Brennan: Guys like me would be there through it all to reduce the suffering

Jayden: Physical suffering. No one can do anything with this. I wish I could just have sex and wait for a baby while having a normal life. Not getting fat, having the same body, the same breast and not disgusting ... Not feeling sick, not having pain, being able to do every day stuff even like walking...

Brennan: It's gonna happen eventually

Jayden: I was I'm a store, behind me there was a pregnant woman, she dropped some mo ney and she couldn't even take them from the floor... I had to help her

Brennan: That's because she's about to give birth

Jayden: I hope that maybe soon they will be possible to have a child without being p regnant. Yes! And she's suffering

Brennan: Any I'm sorry for feeding you with my bullshit

Jayden: While a man is doing his normal stuff. U mean the conversation?

Brennan: I hope you find a guy that can give you the sex you want and not get pregnant

Jayden: Would be awesome

Brennan: I'm gonna go to sleep now. Good night

Jayden: I said I don't want to have any children now! Maybe in the future when I have a good job, I'm financially independent. Good night

flan-t5-small summary:

Jayden doesn't need kids. He needs to look for another mother to his kids. Jayden is a store, behind him, and a pregnant woman dropped some money and couldn't take them from the floor. She's about to give birth.

Now, a couple summarizations with comparison to ground truth

```
In [74]: pred test list = []
         ref_test_list = []
         sample num = 0
         this_sample = dataset['test'][sample_num]
         print(f"dialogue: \n{this sample['dialogue']}\n----")
         ground_summary = this_sample['summary']
         res = summarizer(this sample['dialogue'])
         res_summary = res[0]['summary_text']
         print(f"human-genratd summary:\n{ground summary}")
         print(f"flan-t5-small summary:\n{res_summary}")
         ref_test_list.append(ground_summary)
         pred_test_list.append(res_summary)
         # datasets.load metric
         #+ Supposed to be deprecated, but it's the only one I found that aggregates
         #+ the scores. Also, it gives more than just an f-score
         rouge = load_metric('rouge', trust_remote_code=True)
         # Yes, I have just one datum, but I'm setting things up to
         #+ work well with a loop.
         results_test_0 = rouge.compute(
                             predictions=pred_test_list,
                             references=ref_test_list,
                             use_aggregator=False
         # >>> print(list(results_test.keys()))
         # ['rouge1', 'rouge2', 'rougeL', 'rougeLsum']
```

Your max_length is set to 200, but your input_length is only 133. Since this is a su mmarization task, where outputs shorter than the input are typically wanted, you mig ht consider decreasing max_length manually, e.g. summarizer('...', max_length=66)

```
dialogue:
Hannah: Hey, do you have Betty's number?
Amanda: Lemme check
Hannah: <file_gif>
Amanda: Sorry, can't find it.
Amanda: Ask Larry
Amanda: He called her last time we were at the park together
Hannah: I don't know him well
Hannah: <file gif>
Amanda: Don't be shy, he's very nice
Hannah: If you say so..
Hannah: I'd rather you texted him
Amanda: Just text him 🙂
Hannah: Urgh.. Alright
Hannah: Bye
Amanda: Bye bye
human-genratd summary:
Hannah needs Betty's number but Amanda doesn't have it. She needs to contact Larry.
flan-t5-small summary:
Larry called Hannah last time she was at the park together. Hannah doesn't know Larr
y well. Larry called her last time they were at a park. Hannah will text Larry.
```

In [75]: print_rouge_scores(results_test_0, 0)

```
----- ROUGE SCORES -----
 ----- dialogue 1 -----
ROUGE-1 results
[Score(
        precision=0.16129032258064516,
        recall=0.3125,
        fmeasure=0.2127659574468085)]
ROUGE-2 results
[Score(
        fmeasure=0.044444444444444)]
ROUGE-L results
[Score(
        precision=0.12903225806451613,
        recall=0.25,
        fmeasure=0.1702127659574468)]
ROUGE-Lsum results
[Score(
        precision=0.12903225806451613,
        recall=0.25,
        fmeasure=0.1702127659574468)]
```

```
In [76]: sample num = 224
         this_sample = dataset['test'][sample_num]
         print(f"dialogue: \n{this_sample['dialogue']}\n----")
         ground summary = this sample['summary']
         res = summarizer(this sample['dialogue'])
         res_summary = res[0]['summary_text']
         print(f"human-genratd summary:\n{ground summary}")
         print(f"flan-t5-small summary:\n{res_summary}")
         # Now, we'll have two data
         ref test list = [ground summary]
         pred_test_list = [res_summary]
         results_test_224 = rouge.compute(
                               predictions=pred_test_list,
                               references=ref_test_list,
                               use aggregator=False
         )
```

```
Your max_length is set to 200, but your input_length is only 160. Since this is a su
mmarization task, where outputs shorter than the input are typically wanted, you mig
ht consider decreasing max_length manually, e.g. summarizer('...', max_length=80)
dialogue:
Abigail: It's Sundaay.
Damien: So?..
Abigail: You know what that means.
Damien: Hmm no I don't x)
Abigail: Sunday means we go to church~.
Damien: Oh, yeah..
Abigail: Don't forget to put on a coat and tie.
Damien: A coat and tie?.. Why?
Abigail: To show respect to God and others.
Damien: Omg..I'm glad Sunday is only once a week.
Abigail: I hope God didn't hear that.
Damien: He'll forgive me
Abigail: Just be ready on time please.
human-genratd summary:
Abigail and Damien are going to church on Sunday. Damien has to put on a coat and ti
flan-t5-small summary:
Abigail, Damien and Damien go to church on Sunday. They are going to pray for God an
d others. Damien is glad Sunday is only once a week.
```

```
In [77]: print_rouge_scores(results_test_224, 224)
```

```
----- ROUGE SCORES -----
 ----- dialogue 225 -----
ROUGE-1 results
[Score(
        precision=0.48148148148145,
        recall=0.7222222222222,
        fmeasure=0.57777777777777)]
ROUGE-2 results
[Score(
        precision=0.23076923076923078,
        recall=0.35294117647058826,
        fmeasure=0.2790697674418605)]
ROUGE-L results
[Score(
        recall=0.5,
        fmeasure=0.4)]
ROUGE-Lsum results
[Score(
        recall=0.5,
        fmeasure=0.4)]
```