

Code Fix for the issue: Object of type CallbackManagerForToolRun is not JSON serializable') on
Coder agent

With the graph created, we can now invoke it and see how it performs!

```
for s in graph.stream(  
    "messages": [  
        HumanMessage(content="Generate the bar graph of GDP of Japan and India for the past 5 years.")  
    ]  
):  
    if "__end__" not in s:  
        print(s)  
        print("----")
```

[20] ✓ 24.9s Python

```
... {'supervisor': {'next': 'Researcher'}}  
----  
{'Researcher': {'messages': [HumanMessage(content="Based on the data gathered from various sources, here are the GDP values for Japan and India o  
----  
{'supervisor': {'next': 'Coder'}}  
----
```

Before code fix

```
... {'supervisor': {'next': 'Researcher'}}  
----  
{'Researcher': {'messages': [HumanMessage(content="To generate a bar graph of the GDP of Japan and India over the past 5 years, we need the speci  
----  
{'supervisor': {'next': 'Coder'}}  
----
```

Error

```

-----
JSONDecodeError                                Traceback (most recent call last)
File c:\Users\karthik.sunil\GenAI Projects\Agents\.venv\Lib\site-packages\langchain\agents\output_parsers\tools.py:43, in parse_ai_message_to_tool
    42 try:
--> 43     args = json.loads(function["arguments"] or "{}")
    44     tool_calls.append(
    45         ToolCall(name=function_name, args=args, id=tool_call["id"])
    46     )

File C:\Python312\Lib\json\_init_.py:346, in loads(s, cls, object_hook, parse_float, parse_int, parse_constant, object_pairs_hook, **kw)
    343 if (cls is None and object_hook is None and
    344     parse_int is None and parse_float is None and
    345     parse_constant is None and object_pairs_hook is None and not kw):
--> 346     return _default_decoder.decode(s)
    347 if cls is None:

File C:\Python312\Lib\json\decoder.py:337, in JSONDecoder.decode(self, s, _w)
    333 """Return the Python representation of ``s`` (a ``str`` instance
    334 containing a JSON document).
    335 """
    336 """
--> 337 obj, end = self.raw_decode(s, idx=_w(s, 0).end())
    338 end = _w(s, end).end()

File C:\Python312\Lib\json\decoder.py:355, in JSONDecoder.raw_decode(self, s, idx)
    ...
    358     )
    359 text = str(e)
    360 if isinstance(self.handle_parsing_errors, bool):

ValueError: An output parsing error occurred. In order to pass this error back to the agent and have it try again, pass `handle_parsing_errors=True`
Output is truncated. View as a scrollable element or open in a text editor. Adjust cell output settings...

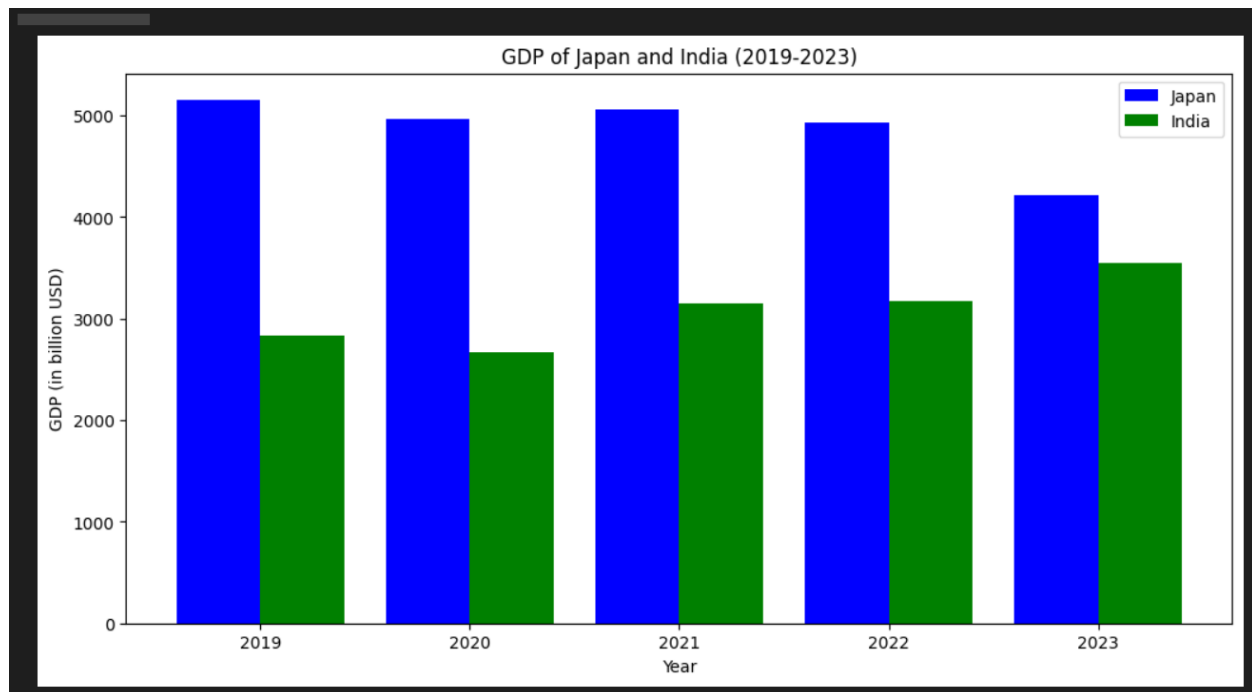
```

After code fix we get proper output

```

... {'supervisor': {'next': 'Researcher'}}
-----
{'Researcher': {'messages': [HumanMessage(content="To generate a bar graph of the GDP of Japan and India over the past 5 years, we need the speci:
-----
{'supervisor': {'next': 'Coder'}}
-----

```



```
...  {'Coder': {'messages': [HumanMessage(content='The bar graph comparing the GDP of Japan and India for the past five years has been generated succe:
-----
{'supervisor': {'next': 'FINISH'}}
-----
```