

```
# Import necessary libraries
```

```
from transformers import AutoModelForCausalLM, AutoTokenizer
```

```
from swarms import ToolAgent
```

```
# Load the pre-trained model and tokenizer
```

```
model = AutoModelForCausalLM.from_pretrained(
```

```
    "databricks/dolly-v2-12b"
```

```
)
```

```
tokenizer = AutoTokenizer.from_pretrained("databricks/dolly-v2-12b")
```

```
# Define a JSON schema for person's information
```

```
json_schema = {
```

```
    "type": "object",
```

```
    "properties": {
```

```
        "name": {"type": "string"},
```

```
        "age": {"type": "number"},
```

```
        "is_student": {"type": "boolean"},
```

```
        "courses": {"type": "array", "items": {"type": "string"}},
```

```
    },
```

```
}
```

```
# Define the task to generate a person's information
```

```
task = (
```

```
    "Generate a person's information based on the following schema:"
```

```
)
```

```
# Create an instance of the ToolAgent class
```

```
agent = ToolAgent(  
    model=model, tokenizer=tokenizer, json_schema=json_schema  
)
```

```
# Run the agent to generate the person's information
```

```
generated_data = agent.run(task)
```

```
# Print the generated data
```

```
print(generated_data)
```