

```
from swarms.structs.agent import Agent
```

```
# Run the agents in the registry
```

```
def run_agent_by_name(
```

```
    name: str,
```

```
    system_prompt: str,
```

```
    model_name: str,
```

```
    max_loops: int,
```

```
    task: str,
```

```
    img: str,
```

```
    *args,
```

```
    **kwargs,
```

```
):
```

```
    """
```

This function creates an Agent instance and runs a task on it.

Args:

name (str): The name of the agent.

system_prompt (str): The system prompt for the agent.

model_name (str): The name of the model used by the agent.

max_loops (int): The maximum number of loops the agent can run.

task (str): The task to be run by the agent.

*args: Variable length arguments.

**kwargs: Keyword arguments.

Returns:

The output of the task run by the agent.

"""

try:

agent = Agent(

agent_name=name,

system_prompt=system_prompt,

model_name=model_name,

max_loops=max_loops,

)

output = agent.run(task=task, img=img, *args, **kwargs)

return output

except Exception as e:

print(f"An error occurred: {str(e)}")

return None