**Practical No: 5**                                                    **Roll No:**

**Subject:** Artificial Intelligence

**Title:** Develop an elementary chatbot for any suitable customer interaction application

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**Program Code :**

```
import nltk
from nltk.chat.util import Chat, reflections

pairs=[
  #
  [
    r"my name is (.)",
    ["Hello %1, How are you"]
  ],
  # Or expression
  [
    r"Hi|Hello|Hey there|Hola",
    ["Hello my name is Hiesenberg"]
  ],
  [
    r"what is your name ?",
    ["I am a bot created by Metaltroop. you can call me crazy!",]
  ],
  [
    r"how are you ?",
    ["I'm doing good How about You ?",]
  ],
  [
    r"sorry (.*)",
    ["Its alright","Its OK, never mind",]
  ],
  [
    r"I am fine",
    ["Great to hear that, How can I help you?",]
  ],
  [
    r"I (.*) good",
    ["Nice to hear that","How can I help you?:)",]
  ],
  [
    r"(.*) age?",
    ["I'm a computer program dude Seriously you are asking me this?",]
  ],
  [
    r"what (.*) want ?",
```
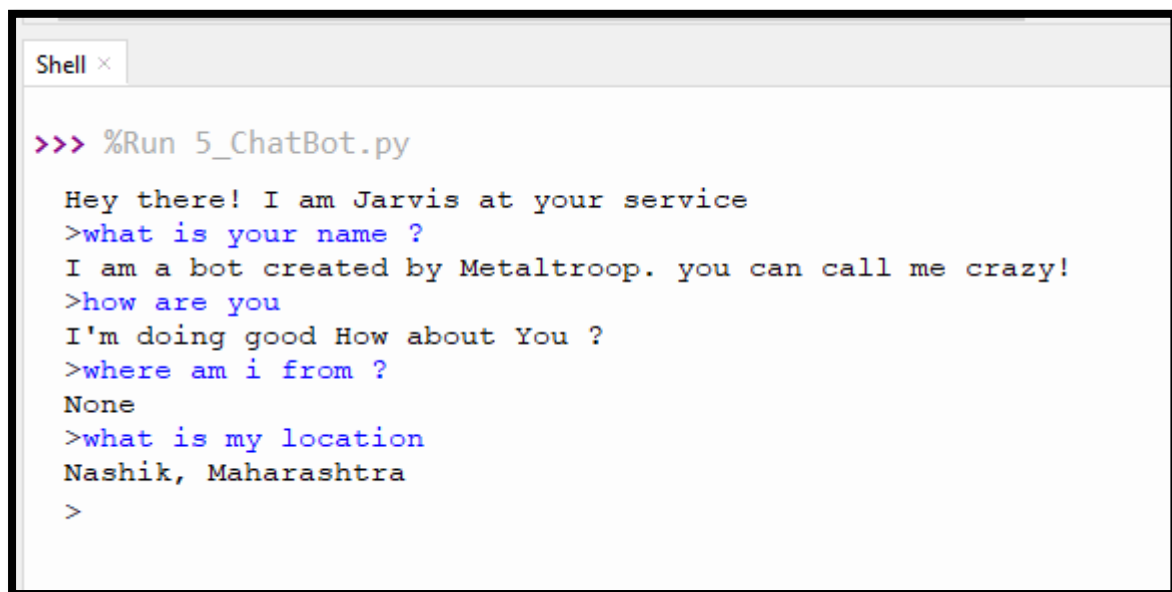
```python
        ["Make me an offer I can't refuse",]
    ],
    [
        r"(.*) created ?",
        ["Raghav created me using Python's NLTK library ","top secret ;)",]
    ],
    [
        r"(.*) (location|city) ?",
        ['Nashik, Maharashtra',]
    ],
    [
        r"how is weather in (.*)?",
        ["Weather in %1 is awesome like always","Too hot man here in %1","Too cold man here in %1","Never even heard about %1"]
    ],
    [
        r"i work in (.*)?",
        ["%1 is an Amazing company, I have heard about it. But they are in huge loss these days.",]
    ],
    [
        r"(.*)raining in (.*)",
        ["No rain since last week here in %2","Damn its raining too much here in %2"]
    ],
    [
        r"how (.*) health(.*)",
        ["I'm a computer program, so I'm always healthy ",]
    ],
    [
        r"(.*) (sports|game) ?",
        ["I'm a very big fan of Football",]
    ],
    [
        r"who (.*) sportsperson ?",
        ["Messy","Ronaldo","Roony"]
    ],
    [
        r"who (.*) (moviestar|actor)?",
        ["Brad Pitt"]
    ],
    [
        r"i am looking for online guides and courses to learn data science, can you suggest?",
        ["Crazy_Tech has many great articles with each step explanation along with code, you can explore"]
    ],
    [
        r"quit",
        ["Thank you for using our intelligence services"]
    ],
```

```
]

def chat():
    print("Hey there! I am Jarvis at your service")
    chat = Chat(pairs)
    chat.converse()

if __name__== "__main__":
    chat()
```

**Output :**