



# Applied Artificial Intelligence

## Practical # 2

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<b>Subject/Course:</b>	Applied Artificial Intelligence	<b>Class</b>	M.Sc. IT – Sem III
<b>Topic</b>	Chatbot	<b>Batch</b>	1

### Design a bot using AIML

**DESCRIPTION:-** AIML stands for Artificial Intelligence Modelling Language. AIML is an XML based markup language meant to create artificial intelligent applications. AIML makes it possible to create human interfaces while keeping the implementation simple to program, easy to understand and highly maintainable. This tutorial will teach you the basics of AIML. All the basic components of AIML with suitable examples have been discussed in this tutorial.

#### Code:-

##### Open cmd and install pip –

```
pip install aiml
pip install python-aiml
```

#### Prac2.py

```
import aiml
kernel = aiml.Kernel()
kernel.learn("std-startup.xml")
kernel.respond("load aiml b")
while True:
    input_text = input(">Human: ")
    response = kernel.respond(input_text)
    print(">Bot: "+response)
```

#### Basic\_chat.aiml

```
<aiml version="1.0.1" encoding="UTF-8">
<!-- basic_chat.aiml -->
  <category>
    <pattern>HELLO *</pattern>
    <template>
      Well, Hello Ninad!
    </template>
  </category>
  <category>
    <pattern>WHAT ARE YOU</pattern>
    <template>
      I'm a bot, and I'm silly!
    </template>
  </category>
```

```

<category>
  <pattern>WHAT DO YOU DO</pattern>
  <template>
    I'm here to motivate you!
  </template>
</category>
<category>
  <pattern>WHO AM I</pattern>
  <template>
    You are a Professional Footballer....
  </template>
</category>
</aiml>

```

**std-startup.xml**

```

<aiml version="1.0.1" encoding="UTF-8">
  <!-- std-startup.xml -->
  <!-- Category is an atomic AIML unit -->
  <category>
    <!-- Pattern to match in user input -->
    <!-- If user enters "LOAD AIML B" -->
    <pattern>LOAD AIML B</pattern>
    <!-- Template is the response to the pattern -->
    <!-- This learn an aiml file -->
    <template>
      <learn>basic_chat.aiml</learn>
      <!-- You can add more aiml files here -->
      <!--<learn>more_aiml.aiml</learn>-->
    </template>
  </category>
</aiml>

```

**Output:-**

```

===== RESTART: D:\NK\pract2.py =====
Loading std-startup.xml...done (0.02 seconds)
Loading basic_chat.aiml...done (0.00 seconds)
>Human: hello bot
>Bot: Well, Hello Ninad!
>Human: what are you
>Bot: I'm a bot, and I'm silly!
>Human: who am i
>Bot: You are a Professional Footballer....
>Human: what do you do
>Bot: I'm here to motivate you!
>Human:

```