**DAILY ASSESSMENT FORMAT**

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| **Date:** | **22nd may 2020** | **Name:** | **Rashmitha** |
| **Course:** | **TCSion** | **USN:** | **4AL17EC077** |
| **Topic:** | **Understand artificial intelligence** | **Semester & Section:** | **6th sem ‘B’ sec** |
| **Github Repository:** | **Rashmitha** |  |  |

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| **FORENOON SESSION DETAILS** |
| **Image of session**  C:\Users\user\AppData\Local\Microsoft\Windows\INetCache\Content.Word\Screenshot (115).png  C:\Users\user\AppData\Local\Microsoft\Windows\INetCache\Content.Word\Screenshot (117).png  **Understand artificial intelligence:**  **What is AI?**   * **AI is concerned with the design of intelligence in an artificial device** * **Term coined by McCarthy in 1956**   **Typical AI problems:**   * **Intelligent entities(or “agents”) next to be able to do both “mundane” and “expert” tasks:** * **Mundane tasks:** * **Planning route, activity** * **Recognizing people,objects** * **Communicating** * **Navigating round obstacles on the street**   **What’s easy and what’s hard?**   * **It has been easier to mechanize many of the high level tasks we usually associate with “intelligence” in people** * **Symbolic integration** * **Providing theorems** * **Playing chess** * **Medical diagnosis**   **Applications:**   * **Computer vision** * **Image recognition** * **Robotics** * **Language processing** * **Speech processing**   **Practical impact of AI:**   * **All components are embedded in numerous devices eg :copy machines** * **AI systems are in everyday use** * **Detecting credit card fraud** * **Configuring products** * **Aiding complex planning tasks** * **Advising physicians** * **Intelligent tutoring systems provide students with personalized attention**   **Autonomous land vehicle in a neural network:**   * **1989-dean pomerleau at CMU creates ALVINN** * **The system drove a car coast-to-coast under computer control for all but about 50 of the 2850 miles**   **Deep blue:**   * **1997-the deep blue chess program beats the current world chess champion, gray kasparov , in a widely followed match**   **Machine translation:**   * **Immediate translations between people speaking different languages would be a remarkable achievement of enormous economic and cultural benefit** * **Universal translation is one of 10 emerging technologies that will affect our lives and work ‘in revolutionary ways’ within a decade ,technology review says.**   **Mars Rover:**   * **NASA’s mars rovers successfully completed their primary three month missions in april** * **The spirit rover is exploring a range of martian hills that took two months to reach.it is finding curiously eroded rocks that may be new pieces to the puzzle of the region’s past**   **Approaches to AI:**   * **Strong AI aims to build machines that can truly reason and solve problems which is self aware and whose overall intellectual ability is indistinguishable from that of a human being** * **Human like** * **Non-human like** * **Weak AI: deals with the creation of some form of computer based artificial intelligence that cannot truly reason and solve problems .but can act as if it were intelligent.** * **Weak AI holds that suitably programmed machines can simulate human cognition.**   **What can AI systems do:**   * **Computer vision :face recognition** * **Robotics: autonomous(mostly) automobile** * **Natural language processing: simple machine translation** * **Spoken language: 1000 word continous speech** * **Planning and scheduling: hubble telescope experiments**   C:\Users\user\AppData\Local\Microsoft\Windows\INetCache\Content.Word\Screenshot (130).png |
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**DAILY ASSESSMENT FORMAT**

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| **Date:** | **22nd may 2020** | **Name:** | **Rashmitha** |
| **Course:** | **Python** | **USN** | **4AL17EC077** |
| **Topic:** | **Create webmaps with python&folium** | **Semester & Section:** | **6th B** |
| **Github Repository:** | **Rashmitha** |  |  |

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| **AFTERNOON SESSION DETAILS** |
| Image of session  C:\Users\user\AppData\Local\Microsoft\Windows\INetCache\Content.Word\Screenshot (126).png  **HTML on Popups:**  **Note that if you want to have stylized text (bold, different fonts, etc) in the popup window you can use HTML. Here's an example:**   1. **import folium** 2. **import pandas** 4. **data = pandas.read\_csv("Volcanoes.txt")** 5. **lat = list(data["LAT"])** 6. **lon = list(data["LON"])** 7. **elev = list(data["ELEV"])** 9. **html = """<h4>Volcano information:</h4>** 10. **Height: %s m** 11. **"""** 13. **map = folium.Map(location=[38.58, -99.09], zoom\_start=5, tiles="Mapbox Bright")** 14. **fg = folium.FeatureGroup(name = "My Map")** 16. **for lt, ln, el in zip(lat, lon, elev):** 17. **iframe = folium.IFrame(html=html % str(el), width=200, height=100)** 18. **fg.add\_child(folium.Marker(location=[lt, ln], popup=folium.Popup(iframe), icon = folium.Icon(color = "green")))**  21. **map.add\_child(fg)** 22. **map.save("Map\_html\_popup\_simple.html")**   **You can even put links in the popup window. For example, the code below will produce a popup window with the name of the volcano as a link which does a Google search for that particular volcano when clicked:**   1. **import folium** 2. **import pandas** 4. **data = pandas.read\_csv("Volcanoes.txt")** 5. **lat = list(data["LAT"])** 6. **lon = list(data["LON"])** 7. **elev = list(data["ELEV"])** 8. **name = list(data["NAME"])** 10. **html = """** 11. **Volcano name:<br>** 12. **<a href="https://www.google.com/search?q=%%22%s%%22" target="\_blank">%s</a><br>** 13. **Height: %s m** 14. **"""** 16. **map = folium.Map(location=[38.58, -99.09], zoom\_start=5, tiles="Mapbox Bright")** 17. **fg = folium.FeatureGroup(name = "My Map")** 19. **for lt, ln, el, name in zip(lat, lon, elev, name):** 20. **iframe = folium.IFrame(html=html % (name, name, el), width=200, height=100)** 21. **fg.add\_child(folium.Marker(location=[lt, ln], popup=folium.Popup(iframe), icon = folium.Icon(color = "green")))** 23. **map.add\_child(fg)** 24. **map.save("Map\_html\_popup\_advanced.html")**   **Tip: Add and Style Points**   * **You can use dir(folium)  to look for possible methods of creating circle markers. Among the methods you will see Marker, which we previously used.** * **Once you locate the method consider using the help  function to look for possible arguments you can pass to the method for styling the circle markers.**   C:\Users\user\AppData\Local\Microsoft\Windows\INetCache\Content.Word\Screenshot (127).png |
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