

DAILY ASSESSMENT DAY 5

Date:	22/5/2020	Name:	SAFIYA BANU
Course:	TCSiON	USN:	4AL16EC061
Topic:	Understand artificial intelligence	Semester & Section:	8th, B
Github Repository:	Safiya-Courses		

FORENOON SESSION DETAILS

Days

SATIVA BANU

8th 3

4 ALICE 061

Understand AI I & II

What is AI

Artificial intelligence is concerned with the design of intelligence in an artificial device.

Typical AI Problems

→ Intelligent entities need to be able to do both mundane & expert task

→ Mundane task

① Planning route, activity

② Recognizing people, objects

→ Expert task

① Medical diagnosis

② Mathematical problem solving

Intelligent Behaviour

Perception

Reasoning

Understanding language

Solving problems.

Applications,
computer vision
Image Recognition
Robotics
Language Processing
speech processing.

Approach to AI

- 1) Strong AI
- 2) Weak AI
- 3) Applied AI
- 4) Cognitive AI

Agents

Operates in environment, have goals.

Implement mapping from ~~input~~ percept
sequence to actions.

Type

Soft bots, expert system, Autonomous
Speech, Intelligent building.

→ The most challenging environment
are partially observable, stochastic, dynamic
& continuous & contain multiple intelligent
agent.

*This is to certify that
Safiya Banu
has successfully completed
Career Edge - Knockdown the Lockdown
online course offered by TCS iON*

Start Date: 17 May 2020 | End Date: 22 May 2020

Topics:

- Communication Skills ■ Presentation Skills ■ Soft Skills ■ Career Guidance Framework ■ Resume Writing
- Group Discussion Skills ■ Interview Skills ■ Business Etiquette ■ Effective Email Writing ■ Telephone Etiquette
- Accounting Fundamentals ■ IT Foundational Skills ■ Overview of Artificial Intelligence* (Source: NPTEL)



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Date: 22//5/2020

Name : SAFIYA

Course:PYTHON

USN:4al16ec061

Topic: LOOPS

Semester & Sec 8th B

AFTERNOON SESSION DETAILS

Image of session

While Loops

While loops controls the iteration inside the loop.

They are different from for loop where the iteration is fixed.

We will see various examples here and BREAK THE CODE!

```
1 | i = 0
2 | numbers = []
```

FOR LOOPS

```
the_count = [1, 2, 3, 4, 5]
fruits = ['apples', 'oranges', 'pears', 'apricots']
change = [1, 'rupee', 2, 'paisa', 3, 'mudra']

# traverse through the list we created
for xxx in the_count:
    print(f"This is count {xxx}")

# traverse through a string list we created
for fruit in fruits:
    print(f"A fruit of type: {fruit}")

# also we can go through mixed lists too
for i in change:
    print(f"I got {i}")

# we can also build lists, first start with an empty one
elements = []

# then use the range function to do 0 to 5 counts
for i in range(0, 6):
    print(f"Adding {i} to the list.")
    # append is a function that lists understand
    elements.append(i)

# now we can print them out too
for i in elements:
    print(f"Element was: {i}")

elements = []

# then use the range function to do 0 to 5 counts
for xxx_each in the_count:
    print(f"Adding {xxx_each} to the list.")
    # append is a function that lists understand
    elements.append(xxx_each)
```

While Loops

While loops controls the iteration inside the loop.

They are different from for loop where the iteration is fixed.

We will see various examples here and BREAK THE CODE!

```
i = 0
numbers = []

while i < 7:
    print(f"At the top i is {i}")
    numbers.append(i)

    i = i + 3
    print("Numbers now: ", numbers)
    print(f"At the bottom i is {i}")

print("The numbers: ")

for num in numbers:
    print(num)
```

Checking things before changing in the loop and understanding the output.

```
i = 0
numbers = []

while i < 6:
    print(f"At the top i is {i}")
    numbers.append(i)

    i = i + 1
    print("Numbers now: ", numbers)
    print(f"At the bottom i is {i}")

print("The numbers: ")

for xxx in numbers:
    print(xxx)
```

```
i=0
li = [2,3,5,67,85,5,4]
max = len(li)
while i < max:
    print (li[i])
```

```
i=i+1
```

Another while inside a while, let us see if you predict the number of stars

```
i=1
while i < 11:
    j = 0
    while j < i:
        print('*',end='')
        j=j+1
    print()
    i=i+1
print("Rest of the program")
```

