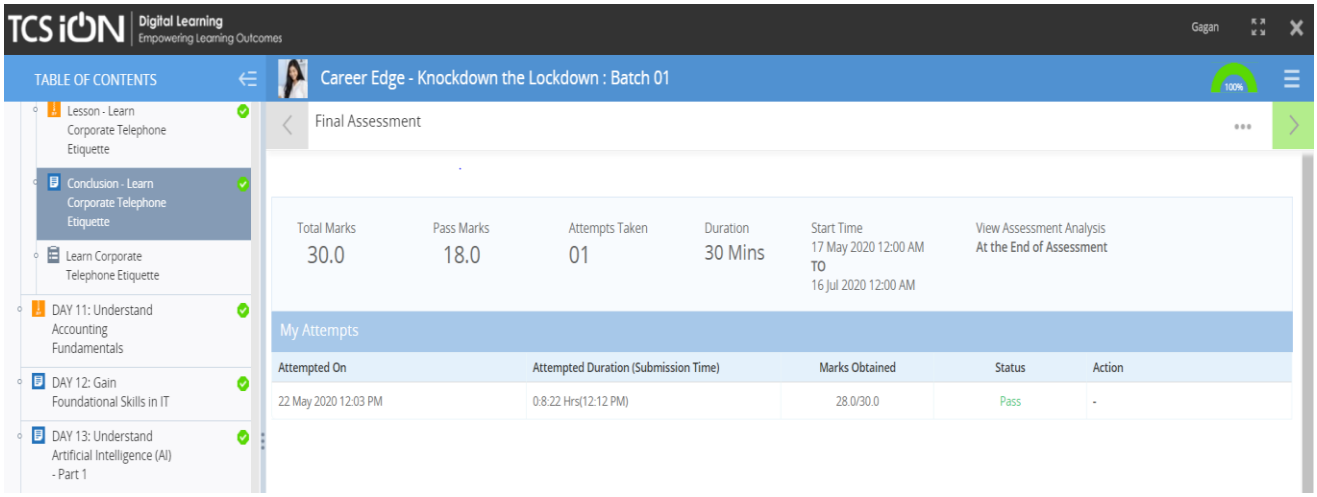
DAILY ASSESSMENT REPORT

Date:	**22 May 2020**	**Name:**	**Gagan M K**
Course:	**TCS-IONCAREEREDGE**	**USN:**	**4AL17EC032**
Topic:	**1. Understand Artificial Intelligence (AI) -Part 1** **2. Understand Artificial Intelligence (AI) -Part 2** **3. Assessment**	**Semester & Section:**	**6th sem & 'A' sec**
Github Repository:	**Alvas-education-foundation/Gagan-Git**		

FORENOON SESSION DETAILS

Image of session



Report – Report can be typed or hand written for up to two pages.

Certificate:

TCS iON | Digital Learning Hub
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This is to certify that

Gagan M K

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)

CERTIFIED
Cert. ID.: 4-8316053-1016
Dated: 22 May 2020

Mehul Mehta
Global Delivery Head, TCS iON

Understand Artificial Intelligence (AI) -Part 1:

- **Introduction to AI AI is concerned with the design of intelligence inartificial device.**
- **This definition was coined by McCarthy in 1956.**
- **A Turing Test is a method of inquiry in artificial intelligence (AI) for determining whether or not a computer is capable of thinking like a human being. The test is named after Alan Turing, the founder of the Turing Test and an English computer scientist, cryptanalyst, mathematician and theoretical biologist.**
- **Application of AI:**
    - **Computer vision.**
    - **Image recognition.**
    - **Robotics.**
    - **Language processing.**
    - **Speech processing.**

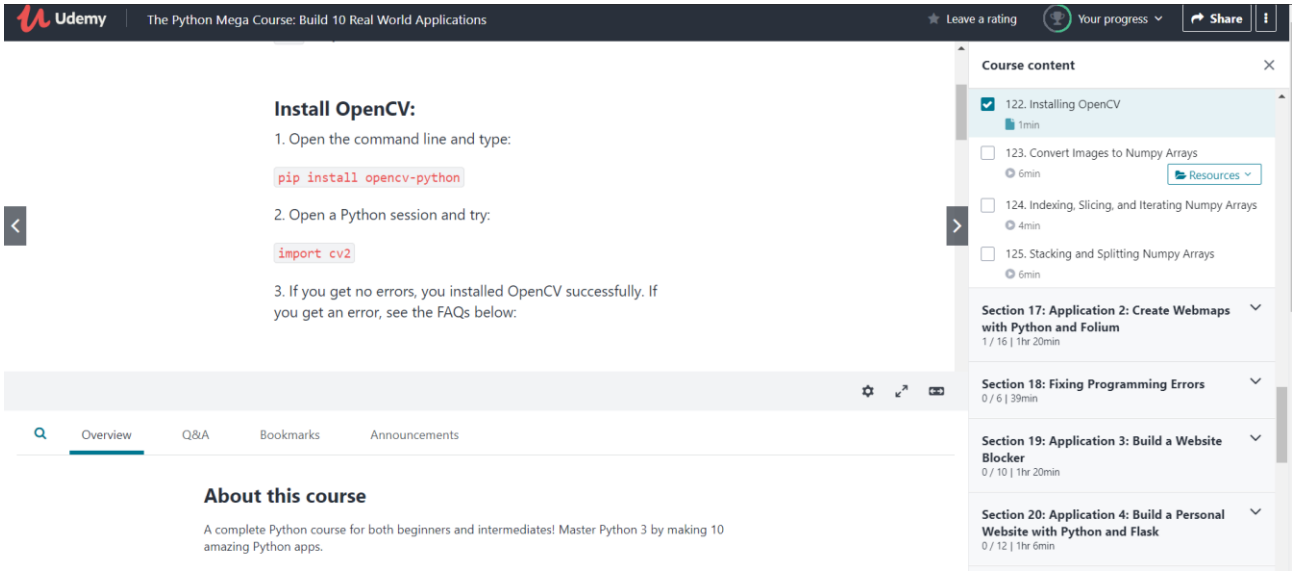
Understand Artificial Intelligence (AI) -Part 2:

- **Agents operate in an environment and have their own goals to perform.**
- **Agents perceives its environment through sensors and acts upon its environment through actuators/effectors.**
- **Example for agents:**
    - **Human –Eyes, Ears, Skin, Taste buds, etc. are sensors. Hands, Fingers, Legs, Mouth, etc. are effectors.**
    - **Robots –Camera, Infrared, Bumper, etc. are sensors. Grippers, Wheels, Lights, Speakers, etc. are actuators.**
- **An ideal agent always chooses the action which maximizes its expected performance, given its percept sequence so far.**
- **An autonomous agent uses its own experience rather than built-in knowledge of the environment by the designer.**
- **An agent program maps from percept to action and updates its internal state.**

Date:	22 May 2020	Name:	Gagan M K
Course:	The Python Mega Course	USN:	4AL17EC032
Topic:	• Numpy	Semester & Section:	6th sem & 'A' sec

AFTERNOON SESSION DETAILS

Image of session:



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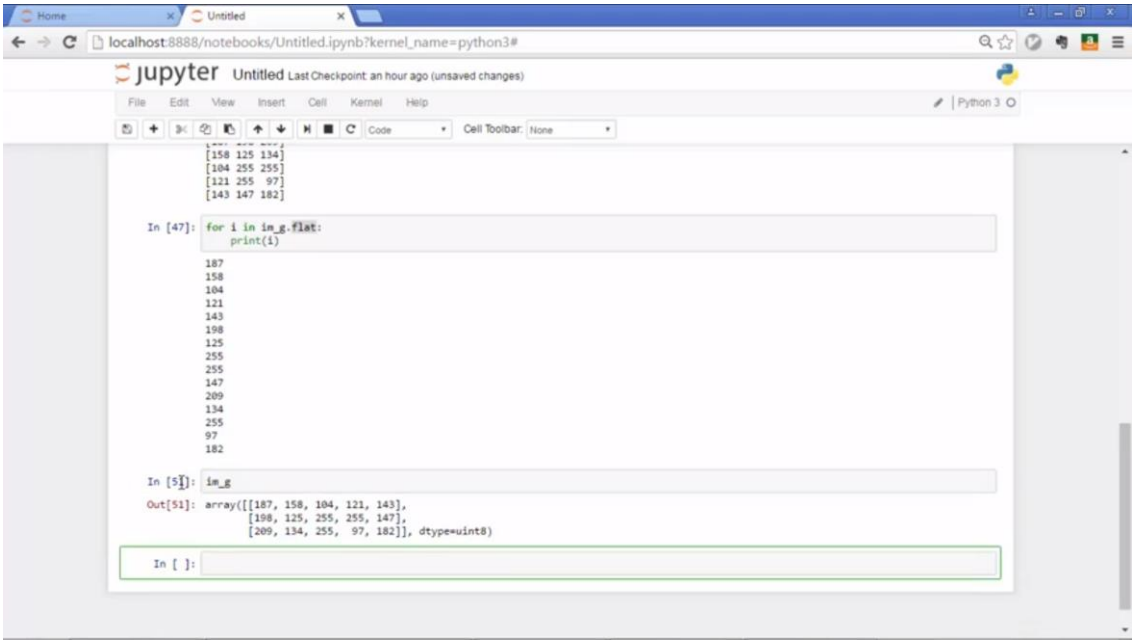

Numpy:

- **What is Numpy?**
  - **Numpy is the fundamental package for scientific computing in Python.**
- **It is a Python library that provides a multidimensional array object, various derived objects (such as masked arrays and matrices), and an assortment of routines for fast operations on arrays, including mathematical, logical, shape manipulation, sorting, selecting, I/O, discrete Fourier transforms, basic linear algebra, basic statistical operations, random simulation and much more.**
- **At the core of the Numpy package, is the ndarray object. This encapsulates-dimensional arr ays of homogeneous data types, with many operations being performed in compiled code f or performance.**
- **The value '0'is passed when read operation is performed on the image to give gray scale pix el values of the image.**
- **The value '1'is passed when read operation is performed on the image to give Blue, Green, Red(BGR)pixel values of the image respectively.**
- **Indexing and Slicing of numpy arrays.**