



Segment 1: Python Task Description

1. Intro to Python setting up of Python & Notepad++.
2. Control Structures If, else, elif & for statements.
3. Intro to Python Application Build your own investment calculator.
4. Data Structures For & while loops, then proceeding to nesting.
5. Input & Output User inputs with processed outputs.
6. Functions Introduction to functions.
7. Functions Application Use functions to go on holiday.
8. Lists & Hashing Introduction to lists and hash maps.
9. Lists & Hashing Application Build a battleship game.
10. Functions, Lists & Hashing Coding & decoding input using functions & hashes.
11. OOP I Learning Object Oriented Programming.
12. OOP II An introduction to inheritance.
13. Bioinformatics Processing data from text files real world application to DNA.
14. Recursion Understanding the application of recursion in programming.
15. Language processing Introduction to Artificial Intelligence and Python libraries.
16. Machine Learning An introduction to a popular machine learning algorithm.

Segment 2: HTML & CSS

1. Intro to HTML Creating and understanding basic elements
2. Tables and Lists Further element design to enhance website data
3. Input and Links Allow for websites to become more versatile
4. HTML Application Create your own website using what you've learnt
5. Intro to CSS Introduction to Cascading Style Sheets and what it does
6. Stylesheet Modify fonts and colours of elements
7. Classes and IDs Select specific groups and elements for styling
8. CSS Application Style the HTML website you created using CSS
9. CSS Bootstrap Learn how to style like Twitter does

Segment 3: JavaScript & jQuery

1. Intro to JavaScript Learning about basic data types in JavaScript
2. Data Structures Loops and conditions in JavaScript
3. Scripting and Events Learn how to modify webpage elements with JavaScript
4. Functions Introduction to functions in JavaScript
5. OOP Learning JavaScript bases object oriented programming
6. JavaScript Application Use your JavaScript knowledge to create a shopping till
7. Intro to jQuery Learning about jQuery functionality
8. Functions Introduction to functions in jQuery
9. Selectors Select and modify HTML elements dynamically
10. Events and Effects Create animations and customisations
11. Interactive Website Use your jQuery knowledge to make your website interactive

Segment 4: Terminal & Django

Terminal Introduction to basic commands and functionality.

Django I

Setting up and introducing Django, a Python Web Framework.

Django II

Explanation of Django fundamentals and how it applies to you.

Django III

Reviewing prior content and extending your site's functionality.

Django IV

Host your created website through Django




python

FULL STACK DEVELOPMENT
WITH

django




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