



AFCKS Technologies

Practical Applications of Python Programming Foundation

Introduction

Python is one of the leading programming language. Globally favourite mainly due to its simplicity and wealth of Libraries availability.

Python is extensively used in Data Science projects. Apart from Data Science it is used for creating GUI's, API's, Web Development, Web Scraping, Web Automation, System Automation, Game Development also used along with various RPA's to support automations

This course intends to build strong Python Foundation base for students so then when they start learning Data Science they find Python usage easier.

Python course is manly focused at Data Handling, Data Manipulation, Data fetching from various sources specifically Web, Data Transformation, PDF reading, Database interaction including SQLite, Userforms, Visualizations, Pattern identification and much more. The course is designed in a Practical oriented way so that not only important concepts are covered but also its practical usage is covered.

Examples and Concepts Coverage

- 001 - Read data from Excel
- 002 - Read from Excel and Write to Excel back
- 003 - Get Data from File in Sub folder
- 004 - Get data from different sheet in the file
- 005 - Give output sheet name
- 006 - Create Two Sheets
- 007C - Combine Text with Variable
- 008C - Get Current Date in a particular format
- 009C - Convert Date into given format
- 010 - Read CSV from internet
- 011C - Show All columns data from Dataframe
- 012C - Multiline Comments
- 013C - Read Online CSV Export to Excel without index in titanic sheet
- 014C - Print data from a single column
- 015C - Print true when male and false when female
- 016C - Filter only Male Data
- 017C - export male data in Male sheet and female data in female sheet
- 018C - Show Male and female data using loop

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- 019C - Show Embarked data in different sheets
- 020C - Show Sex data dynamically by getting uniques
- 021C - Get uniques ignoring null values and also convert string to lower case
- 022C - Show only few columns
- 023C - Create a calculated column based on other column
- 024C - Rearrange the logic of code to print only desired columns including Calculated Column
- 025C - Use List Comprehension
- 026C - Convert dictionary with List object to Dataframe
- 027C - Create an empty Dataframe
- 028C - Add a new column with values from Empty Dataframe
- 029C - Print Min and Max age
- 030C - Create a Dictionary object to show Min and Max Age
- 031C - When single item is provided then dictionary cannot be converted to Dataframe
- 032C - Convert values to list to make it acceptable by DataFrame
- 033C - Change orientation and store in DF
- 034C - Use Dataframe Groupby object to filter
- 035C - If you dont unpack values then you will get a tuple containing value and dataframe
- 036C - Use group by to show each cabin data in different sheet
- 037C - Group by two columns and print the result
- 038C - Get error when we try to pass tuple in place of Sheet Name
- 039C - how to unpack tuple using index
- 040C - Dump Pclass and Gender in multiple sheets
- 041 Sum Group by
- 042 - Error is coming when we try to do sum by row
- 043C - Slicing rows using Loc
- 044C - Get total of Columns from Jan to Dec
- 045C - Get Column wise totals
- 046C - Create Dataframe using List
- 047C - Append one Dataframe below another
- 048C - Add data to Dataframe using list in list then append in another dataframe
- 049C - Add total to Dataframe
- 050 - Join two tables
- 051 - Split text in both Python and VBA
- 052 - Merge data from two sheets
- 053 - Merging Data when Column headers are different
- 054 - Merging data without using Index columns
- 055 - Giving index on one and not on another will not work when Column Names are different
- 056 - Change column name for Merging Data
- 057 - Table merge using two columns
- 058 - Merge three tables
- 059 - Dump all tables from WIKI to excel
- 060 - Print only few Dataframes from all using Slicing
- 061C - Print Datatypes of Dataframe
- 062C - Remove - or filter data that includes all ranks except -
- 063C - Convert Object Datatype to float by using astype



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- 064C - combine all three tables using Concat using Ranks
- 065 - Understanding split concept
- 066 - Using Apply and Lambda function remove content after [
- 067C - Remove content after square and round bracket
- 068 - Get Cricketers info
- 069 - Use Beautiful Soup to print the page source html in readable way
- 070 - write site content to HTML
- 071 - Read html file
- 072C - Create a Function for read html file from computer
- 073C - create custom python library and import it
- 074C - read function directly
- 075 - Print all hyperlinks tag from Website
- 076C - Extract and print Country name and image location from Website for Flags
- 077C - Save Country Name and Image Location in Excel File
- 078 - Get binary output of first image link
- 079C - Download images from path
- 080 - Print in JSON by reading from API
- 081 - Get Pin code data
- 082 - Get by Department
- 083 - Get Job URL from Tech Mahindra
- 084- Get Title from Site
- 085C - Get Skills from Site
- 086C - Split Skills in multiple lines to List
- 087C - Convert Skills into Dataframe
- 088 - Get all data Text
- 089C - Get Individual Job Group data
- 090C - Converted Experience in Dataframe
- 091C - Append all Details to Dataframe (Incomplete)
- 092 - Get Data from Naukri.com
- 093 - Get Salary and other details
- 094 - Club data together
- 095 - Use Lambda function for Link and get specific columns only
- 096 - Get data from mychoize
- 097C - Get only Imp columns
- 098C - Add Hyperlink in Cells
- 099C - Split Data into Subscriptions
- 100C - Create Booking Link using Lambda Function
- 101 - Find Element, Click on element, Send Keys
- 102C - Optimized code by creating Function
- 103C - Get Amt required in INR
- 104C - Convert entire process to Function
- 105 - Fill form and submit
- 106 - Enter Multiple
- 107 - Not working using Pandas due to Security
- 108C - Download BhavCopy from NSE for a given date

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- 109C - various Date formats
- 110C - Make Link dynamic
- 111C - Download all files from 1st Jan 21 to 31 Mar 21
- 112C - Combine all Bhavcopies
- 113C - Split Bhavcopies by Companies
- 114 - Show Top 50 Records only
- 115 - Summarize by Sum
- 116 - Group by using two index columns and two values
- 117 - Remove Index and show as columns
- 118 - Multiple Summary (Sum, Mean, Count)
- 119 - Sum, Mean and Count of Sales and Profit
- 120 - Sales Sum, Profit Mean
- 121 - Sum, mean, Count of Sales and Mean of Profit
- 122 - Show Bar chart from data
- 123 - Show Multiple Charts
- 124 - Save Pie Chart as image
- 125 - Show Pie chart in case of Multiple Index
- 126 - Two Pie Charts
- 127 - Show only Single Pie even when there are multiple plots
- 128 - Show Candle Stick Chart
- 129 - Find all occurrence of w
- 130 - Get all Characters and numbers in list
- 131 - Split Words
- 132 - Get only numbers
- 133 - Get only Characters not numbers
- 134 - Get Characters both Upper and Lower Case
- 135 - Match A to E only Characters only
- 136 - Using Ignore Case
- 137 - Find only 10 Digits
- 138 - Find only those 10 Digits char starting with 6 to 9
- 139 - Find Mobile number even though it starts with 0
- 140 - Match 0 to 3 extra characters before mobile number
- 141 - Finding only those patterns ending with space
- 142 - Ending with either space or comma
- 143 - Group both numbers and space or Comma
- 144 - Make Space and Comma Optional
- 145 - Show optional + along with Mobile number
- 146 - Group Codes and Mobile Numbers
- 147 - Printing 10 Digits Mobile Number using Python Loops
- 148 - Understanding working of Regex and Probably
- 149 - Get First and Last Name
- 150 - Show First and Last Name in Groups
- 151 - Get all Email IDs
- 152 - Find email ID with . also
- 153 - Both - and . are fine

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- 153 - Both - and . are fine - Copy
- 154 - Accept .com as well as .co.in
- 155 - Display data in Dataframe
- 156 - Find all between Round and Square brackets
- 157 - Remove all content between Round and Square brackets
- 158 - Clean data from Wiki remove within round and square brackets
- 159 - Find ac code with ignore case setting
- 160 - Bring Account code and Account name in proper Dataframe
- 161 - Read from Text file
- 162 - Get only Dates from the same
- 163 - Get Numbers between Dates
- 164 - Solution to secure last Row Item
- 165 - Convert List into Dataframe
- 166 - Getting Answer in Dataframe
- 167 - Open PDF file using Shell and Command Line.xlsm
- 168 - Run Py file from Excel.xlsm
- 169 - Pass File name from Excel to Python using Sys.xlsm
- 170 - Exe Creating procedure
- 170 - Open Exe.xlsm
- 171- Macro in Excel.xlsm
- 172 - Create Table in SQLite
- 173C - Insert Data in table
- 174C - Read data from SQL Lite
- 175 - Show Blank Form with Title AFCKS Technologies
- 176C - Show Label in Form
- 177C - Show Text box below Labels
- 178C - Show Controls in Grid
- 179C - Add button to form and arrange
- 180C - Show Name in Label on button click
- 181C - Show Name Dynamically
- 182C - Store Name in Sqlite
- 183 - Read data from Access file