



Technical Evaluation

Special Instructions:

- You are required to submit the tasks (WinRAR Zip file) by **Monday 14-12-2020 1 pm**.
- You may use scrapping and automation libraries like **Scrapy** and **Selenium** respectively to complete the described tasks.
- Please **add comments** in your code so it is easier to understand which part of the code is doing what.
- You will be asked to walk us through your code and questions might be asked during the demo.

This technical evaluation is based upon two tasks, the details of which are as follows:

Task 1:

- Scrape the below mentioned website for all the names of **Product Categories** and their **Subcategories**
<https://www.analog.com/en/products.html#>

Product Categories

Amplifiers	Interface & Isolation
Analog Functions	Power Monitor, Control, & Protection
A/D Converters (ADC)	Optical Communications & Sensing
Audio & Video Products	Power Management
Clock & Timing	Processors & Microcontrollers
D/A Converters (DAC)	RF & Microwave
High Speed Logic & Data Path Management	Sensors & MEMS
Industrial Ethernet	Switches & Multiplexers

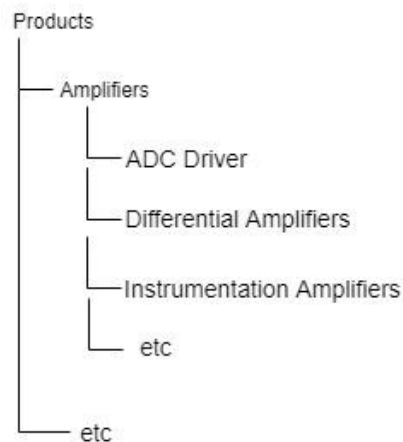
Amplifiers

Analog Devices amplifiers deliver high performance by combining circuit design and manufacturing process innovation to simplify signal conditioning design.

Subcategories

ADC Drivers	RF Amplifiers
Differential Amplifiers	RF Power Detectors
Instrumentation Amplifiers	Specialty Amplifiers
Isolation Amplifiers	Variable Gain Amplifiers (VGA)
Operational Amplifiers (Op Amps)	Video Amplifiers & Analog Video Functions

- The output of the web scrapper should be fed into a database (SQL or equivalent) where each Product Category should have its respective Subcategories under it.



Task2 :

- Scrape the below mentioned website for all the names of **Product Categories**, their **Subcategories** and all the **Products and their Description** under each of those subcategories.
https://www.st.com/content/st_com/en.html

ST life, augmented

Products ▾ Search...

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Amplifiers and Comparators > Browse Amplifiers and Comparators →

Audio ICs >

Automotive ADAS Devices >

Automotive Analog and Power >

Automotive Infotainment and Telematics >

Automotive Logic ICs >

Automotive Microcontrollers >

Comparators **Power Operational Amplifiers**

Automotive Comparators

High-Speed Comparators **Video Amplifiers**

Low Power Comparators

Standard Comparators

Automotive Comparators Save to myST

Overview Product selector Resources Tools & Software

19 total entries Export My bookmark Share Customize columns

Compare	Part Number	General Description	Package	Grade	Number of Channels	Operating Temperature (°C)		Supply Current per Channel (µA)	Supply Voltage (V)		Response Time (µs)	Input Offset Voltage (mV)	Rail to Rail Input	Output Configuration	Unit Price (USD)
						min	max		typ	min					
<input type="checkbox"/>	LM2901 ACTIVE	Low power quad voltage comparator	SO-14, TSSOP-14, VQFPN 16 3x3x0.9	Automotive, Industrial	4	-40	125	275	2	32	1.3	7		Open Collector	0.104, 0.136, 0.15, 0.168, 0.18
<input type="checkbox"/>	LM2903 ACTIVE	Low power dual voltage comparator	MSOP/TSSOP-8, SO-8, TSSOP-8, UFSOP-8 2x2x0.6, WDFPN 2X2X0.8 8 P 0.5 WET FLK	Automotive, Industrial	2	-40	125	400	2	36	1.3	7		Open Collector	0.14, 0.15, 0.168, 0.17, 0.18, 0.1854

- The output of the web scrapper should be fed into a database (SQL or equivalent) where each **Product Category** should have its respective **Subcategory**, **Product Name** and **Product Description** under it.

