In [1]: import pandas as pd
In [2]: pip install tabulate
 Requirement already satisfied: tabulate in c:\users\smair\anaconda3\lib\site-packa ges (0.8.10)
 Note: you may need to restart the kernel to use updated packages.
In [3]: data=pd.read_csv("C:/Users/smair/OneDrive/Desktop/book31.csv")
In [4]: data

ggg

Out[4]:

	Name	Age	Education	Have you noticed an increase in your awareness of environmental issues over the past few years?	Have you changed your shopping habits in the past year to support more sustainable options?	How important is environmental sustainability to you when making purchasing decisions?	What type of sustainable products do you purchase most frequently?	What so information information know awaren sustaina
0	Rahael MOUMI	25- 35	Post-Grad	Yes	Yes, significantly	4	Organic Food and Beverages	Social
1	Cristina Morales	25- 35	Post-Grad	Yes	Yes, significantly	2	Eco- Friendly Clothing	Social
2	Pooja	25- 35	Post-Grad	Yes	Yes, significantly	4	Organic Food and Beverages	News (
3	Naomi	25- 35	Under- Grad	Yes	Yes, slightly	3	Cruelty free products	Social
4	Harri	55- 65	Post-Grad	Yes	Yes, slightly	3	Energy efficient appliances	Re
5	Duncan	25- 35	Under- Grad	Yes	Yes, significantly	3	Eco- Friendly Clothing	News (
6	Li	25- 35	Post-Grad	Yes	Yes, significantly	4	Re-useable household items	Social
7	Yulia Prokopiv	35- 45	Higher Education	Yes	Yes, significantly	5	Re-useable household items	Social
8	Vasundhara Sharma	35- 45	Post-Grad	Yes	Yes, significantly	3	Re-useable household items	News (
9	KISHORE ASTHANA	55- 65	Higher Education	Yes	Yes, slightly	4	Energy efficient appliances	Social
10	Himanshu	35- 45	Under- Grad	No	Yes, slightly	3	Energy efficient appliances	Frien
11	Ridham Ghai	18- 25	Under- Grad	Yes	Yes, significantly	4	Eco- Friendly Clothing	Social

	Name	Age	Education	Have you noticed an increase in your awareness of environmental issues over the past few years?	Have you changed your shopping habits in the past year to support more sustainable options?	How important is environmental sustainability to you when making purchasing decisions?	What type of sustainable products do you purchase most frequently?	What so inform information know awarer sustaina
12	Samvedanaa Bali	35- 45	Higher Education	Yes	No, not at all	2	Organic Food and Beverages	Social
13	Ayush Aggarwal	18- 25	Under- Grad	Yes	Yes, significantly	4	Re-useable household items	Social
14	Vyomika	25- 35	Post-Grad	Yes	Yes, slightly	3	Energy efficient appliances	Social
15	Rochit Garg	25- 35	Under- Grad	Yes	Yes, slightly	4	Energy efficient appliances	Social
16	Shradha Dugade	25- 35	Post-Grad	Yes	Yes, slightly	1	Energy efficient appliances	News (
17	Chaitanaya Mohan	25- 35	Post-Grad	Yes	Yes, slightly	3	Energy efficient appliances	Social
18	Sarang mukherjee	18- 25	Under- Grad	Yes	Yes, slightly	3	Energy efficient appliances	News (
19	Nabihah Imran	18- 25	Under- Grad	Yes	Yes, significantly	5	Eco- Friendly Clothing, Re-useable household it	Social Cor Adve
20	riya sharma	25- 35	Post-Grad	Yes	Yes, slightly	2	Re-useable household items, Energy efficient a	Social Frien Corpora
21	Naisha	18- 25	Under- Grad	Yes	Yes, slightly	5	Re-useable household items	Social News (
22	nikhil bhan	18- 25	Under- Grad	Yes	Yes, significantly	3	Re-useable household items	Educ Instit Frien

	Name	Age	Education	Have you noticed an increase in your awareness of environmental issues over the past few years?	Have you changed your shopping habits in the past year to support more sustainable options?	How important is environmental sustainability to you when making purchasing decisions?	What type of sustainable products do you purchase most frequently?	What so inform inform know awarer sustaina
23	Pooja naresh	18- 25	Under- Grad	Yes	Yes, significantly	5	Organic Food and Beverages, Re-useable househo	News C Educ Instit F
24	Aaryan kolekar	18- 25	Under- Grad	Yes	Yes, slightly	3	Organic Food and Beverages, Re-useable househo	Social News C Cor Adve
25	Saptaswa Sen	18- 25	Under- Grad	Yes	Yes, significantly	3	Organic Food and Beverages, Eco- Friendly Cloth	Social Educ Instit F
26	Anagha	18- 25	Under- Grad	Yes	Yes, slightly	4	Re-useable household items, Energy efficient a	Social Educ Instit C
27	Noella D'Silva	18- 25	Under- Grad	Yes	Yes, slightly	4	Organic Food and Beverages	Social Frien Corpora
28	Michelle Miranda	18- 25	Under- Grad	Yes	Yes, slightly	5	Organic Food and Beverages, Energy efficient a	Social News C Educ
29	Vyomika	25- 35	Post-Grad	Yes	Yes, significantly	5	Re-useable household items, Energy efficient a	Social Cor Adve
30	Anish	18- 25	Under- Grad	Yes	No, not at all	1	Organic Food and Beverages, Re-useable househo	Social Frien Corpora
31	Shradha Bhat	25- 35	Post-Grad	Yes	Yes, slightly	5	Organic Food and Beverages, Re-useable househo	Social Cor Adve

	Name	Age	Education	Have you noticed an increase in your awareness of environmental issues over the past few years?	Have you changed your shopping habits in the past year to support more sustainable options?	How important is environmental sustainability to you when making purchasing decisions?	What type of sustainable products do you purchase most frequently?	What so inform inform know awarer sustaina
32	Michelle Lobo	18- 25	Under- Grad	Yes	Yes, slightly	2	Organic Food and Beverages	Social Educ Insti
33	Kathyrine Faith Gracia Philip	18- 25	Under- Grad	No	No, not at all	3	Eco- Friendly Clothing	Social News C Educ
34	Ayush Paul	18- 25	Under- Grad	Yes	No, not at all	4	Organic Food and Beverages, Energy efficient a	Social News C Educ
35	Arshad	18- 25	Under- Grad	Yes	Yes, slightly	4	Organic Food and Beverages	Social News C Educ
36	Alaina Ashfaq	18- 25	Under- Grad	Yes	Yes, slightly	2	Organic Food and Beverages	Social News C Frien
37	anju mathew	25- 35	Post-Grad	Yes	Yes, significantly	2	Eco- Friendly Clothing	News C Educ Instit F
38	shankar madhvan	35- 45	Doctorate	Yes	Yes, slightly	3	Re-useable household items	Educ Instit Frien
39	Taniya Anil	18- 25	Under- Grad	Yes	Yes, slightly	2	Organic Food and Beverages, Re-useable househo	Social Educ Insti
40	Alwyn Antony	18- 25	Under- Grad	Yes	Yes, slightly	5	Organic Food and Beverages, Re-useable househo	Social News C Educ
41	Arghya Basu	18- 25	Under- Grad	Yes	Yes, slightly	3	Re-useable household	Social

		Name	Age	Education	Have you noticed an increase in your awareness of environmental issues over the past few years?	Have you changed your shopping habits in the past year to support more sustainable options?	How important is environmental sustainability to you when making purchasing decisions?	What type of sustainable products do you purchase most frequently?	What so information information know awarer sustaina
								items	
	42	Anthony Gonsalvis	45- 55	Post-Grad	No	No, not at all	1	Energy efficient	Frien
In [5]:	data	= data.dr	op(co	olumns=['U	nnamed: 14',	'Unnamed: 1	5', 'Unnamed:	17', 'Unna	amed: 18
In [6]:	data								

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Out[6]:

	Name	Age	Education	Have you noticed an increase in your awareness of environmental issues over the past few years?	Have you changed your shopping habits in the past year to support more sustainable options?	How important is environmental sustainability to you when making purchasing decisions?	What type of sustainable products do you purchase most frequently?	What so information information know awaren sustaina
0	Rahael MOUMI	25- 35	Post-Grad	Yes	Yes, significantly	4	Organic Food and Beverages	Social
1	Cristina Morales	25- 35	Post-Grad	Yes	Yes, significantly	2	Eco- Friendly Clothing	Social
2	Pooja	25- 35	Post-Grad	Yes	Yes, significantly	4	Organic Food and Beverages	News (
3	Naomi	25- 35	Under- Grad	Yes	Yes, slightly	3	Cruelty free products	Social
4	Harri	55- 65	Post-Grad	Yes	Yes, slightly	3	Energy efficient appliances	Re
5	Duncan	25- 35	Under- Grad	Yes	Yes, significantly	3	Eco- Friendly Clothing	News (
6	Li	25- 35	Post-Grad	Yes	Yes, significantly	4	Re-useable household items	Social
7	Yulia Prokopiv	35- 45	Higher Education	Yes	Yes, significantly	5	Re-useable household items	Social
8	Vasundhara Sharma	35- 45	Post-Grad	Yes	Yes, significantly	3	Re-useable household items	News (
9	KISHORE ASTHANA	55- 65	Higher Education	Yes	Yes, slightly	4	Energy efficient appliances	Social
10	Himanshu	35- 45	Under- Grad	No	Yes, slightly	3	Energy efficient appliances	Frien
11	Ridham Ghai	18- 25	Under- Grad	Yes	Yes, significantly	4	Eco- Friendly Clothing	Social

	Name	Age	Education	Have you noticed an increase in your awareness of environmental issues over the past few years?	Have you changed your shopping habits in the past year to support more sustainable options?	How important is environmental sustainability to you when making purchasing decisions?	What type of sustainable products do you purchase most frequently?	What so inforr inf knov awarer sustaina
12	Samvedanaa Bali	35- 45	Higher Education	Yes	No, not at all	2	Organic Food and Beverages	Social
13	Ayush Aggarwal	18- 25	Under- Grad	Yes	Yes, significantly	4	Re-useable household items	Social
14	Vyomika	25- 35	Post-Grad	Yes	Yes, slightly	3	Energy efficient appliances	Social
15	Rochit Garg	25- 35	Under- Grad	Yes	Yes, slightly	4	Energy efficient appliances	Social
16	Shradha Dugade	25- 35	Post-Grad	Yes	Yes, slightly	1	Energy efficient appliances	News (
17	Chaitanaya Mohan	25- 35	Post-Grad	Yes	Yes, slightly	3	Energy efficient appliances	Social
18	Sarang mukherjee	18- 25	Under- Grad	Yes	Yes, slightly	3	Energy efficient appliances	News (
19	Nabihah Imran	18- 25	Under- Grad	Yes	Yes, significantly	5	Eco- Friendly Clothing, Re-useable household it	Social Cor Adve
20	riya sharma	25- 35	Post-Grad	Yes	Yes, slightly	2	Re-useable household items, Energy efficient a	Social Frien Corpora
21	Naisha	18- 25	Under- Grad	Yes	Yes, slightly	5	Re-useable household items	Social News (
22	nikhil bhan	18- 25	Under- Grad	Yes	Yes, significantly	3	Re-useable household items	Educ Instit Frien

	Name	Age	Education	Have you noticed an increase in your awareness of environmental issues over the past few years?	Have you changed your shopping habits in the past year to support more sustainable options?	How important is environmental sustainability to you when making purchasing decisions?	What type of sustainable products do you purchase most frequently?	What so inform inform know awarer sustaina
23	Pooja naresh	18- 25	Under- Grad	Yes	Yes, significantly	5	Organic Food and Beverages, Re-useable househo	News C Educ Instit F
24	Aaryan kolekar	18- 25	Under- Grad	Yes	Yes, slightly	3	Organic Food and Beverages, Re-useable househo	Social News C Cor Adve
25	Saptaswa Sen	18- 25	Under- Grad	Yes	Yes, significantly	3	Organic Food and Beverages, Eco- Friendly Cloth	Social Educ Instit F
26	Anagha	18- 25	Under- Grad	Yes	Yes, slightly	4	Re-useable household items, Energy efficient a	Social Educ Instit C
27	Noella D'Silva	18- 25	Under- Grad	Yes	Yes, slightly	4	Organic Food and Beverages	Social Frien Corpora
28	Michelle Miranda	18- 25	Under- Grad	Yes	Yes, slightly	5	Organic Food and Beverages, Energy efficient a	Social News C Educ
29	Vyomika	25- 35	Post-Grad	Yes	Yes, significantly	5	Re-useable household items, Energy efficient a	Social Cor Adve
30	Anish	18- 25	Under- Grad	Yes	No, not at all	1	Organic Food and Beverages, Re-useable househo	Social Frien Corpora
31	Shradha Bhat	25- 35	Post-Grad	Yes	Yes, slightly	5	Organic Food and Beverages, Re-useable househo	Social Cor Adve

	Name	Age	Education	Have you noticed an increase in your awareness of environmental issues over the past few years?	Have you changed your shopping habits in the past year to support more sustainable options?	How important is environmental sustainability to you when making purchasing decisions?	What type of sustainable products do you purchase most frequently?	What so inform inform know awarer sustaina
32	Michelle Lobo	18- 25	Under- Grad	Yes	Yes, slightly	2	Organic Food and Beverages	Social Educ Insti
33	Kathyrine Faith Gracia Philip	18- 25	Under- Grad	No	No, not at all	3	Eco- Friendly Clothing	Social News C Educ
34	Ayush Paul	18- 25	Under- Grad	Yes	No, not at all	4	Organic Food and Beverages, Energy efficient a	Social News C Educ
35	Arshad	18- 25	Under- Grad	Yes	Yes, slightly	4	Organic Food and Beverages	Social News C Educ
36	Alaina Ashfaq	18- 25	Under- Grad	Yes	Yes, slightly	2	Organic Food and Beverages	Social News C Frien
37	anju mathew	25- 35	Post-Grad	Yes	Yes, significantly	2	Eco- Friendly Clothing	News C Educ Instit F
38	shankar madhvan	35- 45	Doctorate	Yes	Yes, slightly	3	Re-useable household items	Educ Instit Frien
39	Taniya Anil	18- 25	Under- Grad	Yes	Yes, slightly	2	Organic Food and Beverages, Re-useable househo	Social Educ Insti
40	Alwyn Antony	18- 25	Under- Grad	Yes	Yes, slightly	5	Organic Food and Beverages, Re-useable househo	Social News C Educ
41	Arghya Basu	18- 25	Under- Grad	Yes	Yes, slightly	3	Re-useable household	Social

		Name	Age	Education	Have you noticed an increase in your awareness of environmental issues over the past few years?	Have you changed your shopping habits in the past year to support more sustainable options?	How important is environmental sustainability to you when making purchasing decisions?	What type of sustainable products do you purchase most frequently?	What so inform inform know awarer sustaina
								items	
	42	Anthony Gonsalvis	45- 55	Post-Grad	No	No, not at all	1	Energy efficient	Frien
In [7]:	data.	drop(colu	mns=['Lookup T	able'])				

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Out[7]:

	Name	Age	Education	Have you noticed an increase in your awareness of environmental issues over the past few years?	Have you changed your shopping habits in the past year to support more sustainable options?	How important is environmental sustainability to you when making purchasing decisions?	What type of sustainable products do you purchase most frequently?	What so information information know awaren sustaina
0	Rahael MOUMI	25- 35	Post-Grad	Yes	Yes, significantly	4	Organic Food and Beverages	Social
1	Cristina Morales	25- 35	Post-Grad	Yes	Yes, significantly	2	Eco- Friendly Clothing	Social
2	Pooja	25- 35	Post-Grad	Yes	Yes, significantly	4	Organic Food and Beverages	News (
3	Naomi	25- 35	Under- Grad	Yes	Yes, slightly	3	Cruelty free products	Social
4	Harri	55- 65	Post-Grad	Yes	Yes, slightly	3	Energy efficient appliances	Re
5	Duncan	25- 35	Under- Grad	Yes	Yes, significantly	3	Eco- Friendly Clothing	News (
6	Li	25- 35	Post-Grad	Yes	Yes, significantly	4	Re-useable household items	Social
7	Yulia Prokopiv	35- 45	Higher Education	Yes	Yes, significantly	5	Re-useable household items	Social
8	Vasundhara Sharma	35- 45	Post-Grad	Yes	Yes, significantly	3	Re-useable household items	News (
9	KISHORE ASTHANA	55- 65	Higher Education	Yes	Yes, slightly	4	Energy efficient appliances	Social
10	Himanshu	35- 45	Under- Grad	No	Yes, slightly	3	Energy efficient appliances	Frien
11	Ridham Ghai	18- 25	Under- Grad	Yes	Yes, significantly	4	Eco- Friendly Clothing	Social

	Name	Age	Education	Have you noticed an increase in your awareness of environmental issues over the past few years?	Have you changed your shopping habits in the past year to support more sustainable options?	How important is environmental sustainability to you when making purchasing decisions?	What type of sustainable products do you purchase most frequently?	What so inform inform know awarer sustaina
12	Samvedanaa Bali	35- 45	Higher Education	Yes	No, not at all	2	Organic Food and Beverages	Social
13	Ayush Aggarwal	18- 25	Under- Grad	Yes	Yes, significantly	4	Re-useable household items	Social
14	Vyomika	25- 35	Post-Grad	Yes	Yes, slightly	3	Energy efficient appliances	Social
15	Rochit Garg	25- 35	Under- Grad	Yes	Yes, slightly	4	Energy efficient appliances	Social
16	Shradha Dugade	25- 35	Post-Grad	Yes	Yes, slightly	1	Energy efficient appliances	News (
17	Chaitanaya Mohan	25- 35	Post-Grad	Yes	Yes, slightly	3	Energy efficient appliances	Social
18	Sarang mukherjee	18- 25	Under- Grad	Yes	Yes, slightly	3	Energy efficient appliances	News (
19	Nabihah Imran	18- 25	Under- Grad	Yes	Yes, significantly	5	Eco- Friendly Clothing, Re-useable household it	Social Cor Adve
20	riya sharma	25- 35	Post-Grad	Yes	Yes, slightly	2	Re-useable household items, Energy efficient a	Social Frien Corpora
21	Naisha	18- 25	Under- Grad	Yes	Yes, slightly	5	Re-useable household items	Social News (
22	nikhil bhan	18- 25	Under- Grad	Yes	Yes, significantly	3	Re-useable household items	Educ Instit Frien

	Name	Age	Education	Have you noticed an increase in your awareness of environmental issues over the past few years?	Have you changed your shopping habits in the past year to support more sustainable options?	How important is environmental sustainability to you when making purchasing decisions?	What type of sustainable products do you purchase most frequently?	What so information information know awarer sustaina
23	Pooja naresh	18- 25	Under- Grad	Yes	Yes, significantly	5	Organic Food and Beverages, Re-useable househo	News C Educ Instit F
24	Aaryan kolekar	18- 25	Under- Grad	Yes	Yes, slightly	3	Organic Food and Beverages, Re-useable househo	Social News C Cor Adve
25	Saptaswa Sen	18- 25	Under- Grad	Yes	Yes, significantly	3	Organic Food and Beverages, Eco- Friendly Cloth	Social Educ Instit F
26	Anagha	18- 25	Under- Grad	Yes	Yes, slightly	4	Re-useable household items, Energy efficient a	Social Educ Instit Co
27	Noella D'Silva	18- 25	Under- Grad	Yes	Yes, slightly	4	Organic Food and Beverages	Social Frien Corpora
28	Michelle Miranda	18- 25	Under- Grad	Yes	Yes, slightly	5	Organic Food and Beverages, Energy efficient a	Social News C Educ
29	Vyomika	25- 35	Post-Grad	Yes	Yes, significantly	5	Re-useable household items, Energy efficient a	Social Cor Adve
30	Anish	18- 25	Under- Grad	Yes	No, not at all	1	Organic Food and Beverages, Re-useable househo	Social Frien Corpora
31	Shradha Bhat	25- 35	Post-Grad	Yes	Yes, slightly	5	Organic Food and Beverages, Re-useable househo	Social Cor Adve

	Name	Age	Education	Have you noticed an increase in your awareness of environmental issues over the past few years?	Have you changed your shopping habits in the past year to support more sustainable options?	How important is environmental sustainability to you when making purchasing decisions?	What type of sustainable products do you purchase most frequently?	What so inform inform know awarer sustaina
32	Michelle Lobo	18- 25	Under- Grad	Yes	Yes, slightly	2	Organic Food and Beverages	Social Educ Insti
33	Kathyrine Faith Gracia Philip	18- 25	Under- Grad	No	No, not at all	3	Eco- Friendly Clothing	Social News C Educ
34	Ayush Paul	18- 25	Under- Grad	Yes	No, not at all	4	Organic Food and Beverages, Energy efficient a	Social News C Educ
35	Arshad	18- 25	Under- Grad	Yes	Yes, slightly	4	Organic Food and Beverages	Social News C Educ
36	Alaina Ashfaq	18- 25	Under- Grad	Yes	Yes, slightly	2	Organic Food and Beverages	Social News C Frien
37	anju mathew	25- 35	Post-Grad	Yes	Yes, significantly	2	Eco- Friendly Clothing	News C Educ Instit F
38	shankar madhvan	35- 45	Doctorate	Yes	Yes, slightly	3	Re-useable household items	Educ Instit Frien
39	Taniya Anil	18- 25	Under- Grad	Yes	Yes, slightly	2	Organic Food and Beverages, Re-useable househo	Social Educ Insti
40	Alwyn Antony	18- 25	Under- Grad	Yes	Yes, slightly	5	Organic Food and Beverages, Re-useable househo	Social News C Educ
41	Arghya Basu	18- 25	Under- Grad	Yes	Yes, slightly	3	Re-useable household	Social

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          print(data.columns)
 In [8]:
          Index(['Name', 'Age', 'Education',
                  'Have you noticed an increase in your awareness of environmental issues ove
          r the past few years?',
                 'Have you changed your shopping habits in the past year to support more sus
          tainable options?',
                 'How important is environmental sustainability to you when making purchasin
          g decisions?',
                 'What type of sustainable products do you purchase most frequently?',
                 'What sources of information influence your knowledge and awareness of sust
          ainability?',
                  'How willing are you to pay a premium for products that are environmentally
          friendly?',
                 'What actions would encourage you to support sustainability more actively i
          n your daily life?',
                 'How do you verify the sustainability claims made by companies?',
                 'Do you believe that your individual choices can make a significant impact
          on the environment?',
                 'Have you influenced others (friends, family) to make more sustainable choi
          ces?',
                 'Gender', 'Lookup Table'],
                dtype='object')
          data = pd.get_dummies(data, columns=[
 In [9]:
              'What type of sustainable products do you purchase most frequently?',
              'What sources of information influence your knowledge and awareness of sustaina
              'What actions would encourage you to support sustainability more actively in yo
              'How do you verify the sustainability claims made by companies?'
          ])
In [10]:
          data
```

Out[10]:

	Name	Age	Education	Have you noticed an increase in your awareness of environmental issues over the past few years?	Have you changed your shopping habits in the past year to support more sustainable options?	How important is environmental sustainability to you when making purchasing decisions?	How willing are you to pay a premium for products that are environmentally friendly?	b (
0	Rahael MOUMI	25- 35	Post-Grad	Yes	Yes, significantly	4	5	
1	Cristina Morales	25- 35	Post-Grad	Yes	Yes, significantly	2	2	
2	Pooja	25- 35	Post-Grad	Yes	Yes, significantly	4	4	
3	Naomi	25- 35	Under- Grad	Yes	Yes, slightly	3	2	
4	Harri	55- 65	Post-Grad	Yes	Yes, slightly	3	3	
5	Duncan	25- 35	Under- Grad	Yes	Yes, significantly	3	2	
6	Li	25- 35	Post-Grad	Yes	Yes, significantly	4	4	
7	Yulia Prokopiv	35- 45	Higher Education	Yes	Yes, significantly	5	5	
8	Vasundhara Sharma	35- 45	Post-Grad	Yes	Yes, significantly	3	3	
9	KISHORE ASTHANA	55- 65	Higher Education	Yes	Yes, slightly	4	3	
10	Himanshu	35- 45	Under- Grad	No	Yes, slightly	3	3	
11	Ridham Ghai	18- 25	Under- Grad	Yes	Yes, significantly	4	2	
12	Samvedanaa Bali	35- 45	Higher Education	Yes	No, not at all	2	1	
13	Ayush Aggarwal	18- 25	Under- Grad	Yes	Yes, significantly	4	1	

	Name	Age	Education	Have you noticed an increase in your awareness of environmental issues over the past few years?	Have you changed your shopping habits in the past year to support more sustainable options?	How important is environmental sustainability to you when making purchasing decisions?	How willing are you to pay a premium for products that are environmentally friendly?	b (
4.4	V s s l s	25-	Deal Cod	V	Van al'alati	2	-	
14	Vyomika	35	Post-Grad	Yes	Yes, slightly	3	5	
15	Rochit Garg	25- 35	Under- Grad	Yes	Yes, slightly	4	4	
16	Shradha Dugade	25- 35	Post-Grad	Yes	Yes, slightly	1	1	
17	Chaitanaya Mohan	25- 35	Post-Grad	Yes	Yes, slightly	3	2	
18	Sarang mukherjee	18- 25	Under- Grad	Yes	Yes, slightly	3	2	
19	Nabihah Imran	18- 25	Under- Grad	Yes	Yes, significantly	5	5	
20	riya sharma	25- 35	Post-Grad	Yes	Yes, slightly	2	3	
21	Naisha	18- 25	Under- Grad	Yes	Yes, slightly	5	4	
22	nikhil bhan	18- 25	Under- Grad	Yes	Yes, significantly	3	3	
23	Pooja naresh	18- 25	Under- Grad	Yes	Yes, significantly	5	3	
24	Aaryan kolekar	18- 25	Under- Grad	Yes	Yes, slightly	3	4	
25	Saptaswa Sen	18- 25	Under- Grad	Yes	Yes, significantly	3	4	
26	Anagha	18- 25	Under- Grad	Yes	Yes, slightly	4	4	

	Name	Age	Education	Have you noticed an increase in your awareness of environmental issues over the past few years?	Have you changed your shopping habits in the past year to support more sustainable options?	How important is environmental sustainability to you when making purchasing decisions?	How willing are you to pay a premium for products that are environmentally friendly?	b (
27	Noella D'Silva	18- 25	Under- Grad	Yes	Yes, slightly	4	4	
28	Michelle Miranda	18- 25	Under- Grad	Yes	Yes, slightly	5	5	
29	Vyomika	25- 35	Post-Grad	Yes	Yes, significantly	5	4	
30	Anish	18- 25	Under- Grad	Yes	No, not at all	1	1	
31	Shradha Bhat	25- 35	Post-Grad	Yes	Yes, slightly	5	5	
32	Michelle Lobo	18- 25	Under- Grad	Yes	Yes, slightly	2	1	
33	Kathyrine Faith Gracia Philip	18- 25	Under- Grad	No	No, not at all	3	2	
34	Ayush Paul	18- 25	Under- Grad	Yes	No, not at all	4	5	
35	Arshad	18- 25	Under- Grad	Yes	Yes, slightly	4	4	
36	Alaina Ashfaq	18- 25	Under- Grad	Yes	Yes, slightly	2	3	
37	anju mathew	25- 35	Post-Grad	Yes	Yes, significantly	2	2	
38	shankar madhvan	35- 45	Doctorate	Yes	Yes, slightly	3	3	
39	Taniya Anil	18- 25	Under- Grad	Yes	Yes, slightly	2	3	
40	Alwyn Antony	18- 25	Under- Grad	Yes	Yes, slightly	5	2	

		Name	Age	Education	Have you noticed an increase in your awareness of environmental issues over the past few years?	changed your shopping habits in the past year to support more sustainable options?	How important is environmental sustainability to you when making purchasing decisions?	How willing are you to pay a premium for products that are environmentally friendly?	em
	41	Arghya Basu	18- 25	Under- Grad	Yes	Yes, slightly	3	4	
	42	Anthony Gonsalvis	45- 55	Post-Grad	No	No, not at all	1	1	
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In []:									
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	# C	reate a Dat	taFran	ne to disp	lay the colum	n mappings			

Have you

```
column_mapping_df = pd.DataFrame(list(column_mapping.items()), columns=['Original (
    # Display the column mappings in tabular format
    print(tabulate(column_mapping_df, headers='keys', tablefmt='grid'))
```

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3 Have you changed your shopping habits i	
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decisions?	Importance_of_Sustaina
bility_in_Purchase	
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5 How willing are you to pay a premium fo	
friendly?	Willingness_to_Pay_Pr
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6 What type of sustainable products do yo	u nunchaca mast fraguantly)
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7 What sources of information influence y	our knowledge and awareness of susta
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8 What actions would encourage you to sup	port sustainability more actively in
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9 How do you verify the sustainability cl	aims made by companies?
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Out[12]:		Original Column	New Column Name
	0	Age	Age
	1	Education	Education_Level
	2	Have you noticed an increase in your awareness	Environmental_Awareness_Increase
	3	Have you changed your shopping habits in the p	Changed_Shopping_Habits
	4	How important is environmental sustainability	Importance_of_Sustainability_in_Purchase
	5	How willing are you to pay a premium for produ	Willingness_to_Pay_Premium
	6	What type of sustainable products do you purch	Frequent_Sustainable_Product_Type
	7	What sources of information influence your kno	Source_of_Sustainability_Info
	8	What actions would encourage you to support su	Encouragement_to_Support_Sustainability
	9	How do you verify the sustainability claims ma	$Verification_Method_for_Sustainability_Claims$
	10	Do you believe that your individual choices ca	Belief_in_Individual_Impact
	11	Have you influenced others (friends, family) t	Influence_on_Friends_and_Family
	12	How do you verify the sustainability claims ma	Verify_Look_for_Certifications
	13	How do you verify the sustainability claims ma	Verify_Certifications_and_Ask_Friends
	14	How do you verify the sustainability claims ma	Verify_Research_Online
	15	How do you verify the sustainability claims ma	Verify_Online_and_Ask_Friends
	16	How do you verify the sustainability claims ma	Verify_Online_and_Certifications
	17	How do you verify the sustainability claims ma	Verify_Online_Certifications_and_Friends
	18	How do you verify the sustainability claims ma	Verify_Online_Reputation_and_Certifications
	19	How do you verify the sustainability claims ma	Verify_Trust_Brand_Reputation
	20	How do you verify the sustainability claims ma	Verify_Reputation_and_Friends
	21	How do you verify the sustainability claims ma	Verify_Reputation_and_Certifications

In [13]: data

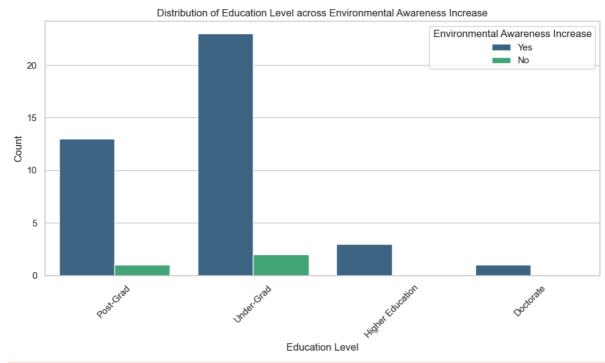
Out[13]:

	Name	Age	Education_Level	Environmental_Awareness_Increase	Changed_Shopping_Habi
0	Rahael MOUMI	25- 35	Post-Grad	Yes	Yes, significant
1	Cristina Morales	25- 35	Post-Grad	Yes	Yes, significant
2	Pooja	25- 35	Post-Grad	Yes	Yes, significant
3	Naomi	25- 35	Under-Grad	Yes	Yes, slight
4	Harri	55- 65	Post-Grad	Yes	Yes, slight
5	Duncan	25- 35	Under-Grad	Yes	Yes, significant
6	Li	25- 35	Post-Grad	Yes	Yes, significant
7	Yulia Prokopiv	35- 45	Higher Education	Yes	Yes, significant
8	Vasundhara Sharma	35- 45	Post-Grad	Yes	Yes, significant
9	KISHORE ASTHANA	55- 65	Higher Education	Yes	Yes, slight
10	Himanshu	35- 45	Under-Grad	No	Yes, slight
11	Ridham Ghai	18- 25	Under-Grad	Yes	Yes, significant
12	Samvedanaa Bali	35- 45	Higher Education	Yes	No, not at a
13	Ayush Aggarwal	18- 25	Under-Grad	Yes	Yes, significant
14	Vyomika	25- 35	Post-Grad	Yes	Yes, slight
15	Rochit Garg	25- 35	Under-Grad	Yes	Yes, slight

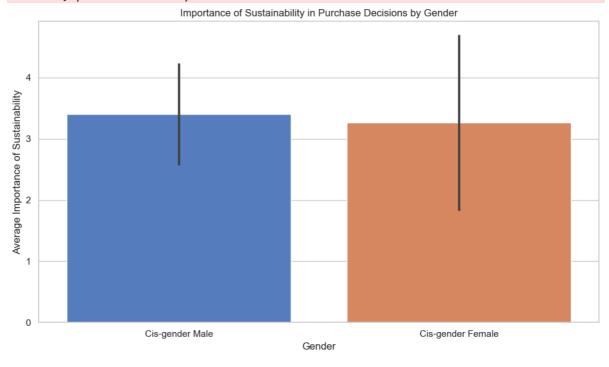
	Name	Age	Education_Level	Environmental_Awareness_Increase	Changed_Shopping_Habi
16	Shradha Dugade	25- 35	Post-Grad	Yes	Yes, slight
17	Chaitanaya Mohan	25- 35	Post-Grad	Yes	Yes, slight
18	Sarang mukherjee	18- 25	Under-Grad	Yes	Yes, slight
19	Nabihah Imran	18- 25	Under-Grad	Yes	Yes, significant
20	riya sharma	25- 35	Post-Grad	Yes	Yes, slight
21	Naisha	18- 25	Under-Grad	Yes	Yes, slight
22	nikhil bhan	18- 25	Under-Grad	Yes	Yes, significant
23	Pooja naresh	18- 25	Under-Grad	Yes	Yes, significant
24	Aaryan kolekar	18- 25	Under-Grad	Yes	Yes, slight
25	Saptaswa Sen	18- 25	Under-Grad	Yes	Yes, significant
26	Anagha	18- 25	Under-Grad	Yes	Yes, slight
27	Noella D'Silva	18- 25	Under-Grad	Yes	Yes, slight
28	Michelle Miranda	18- 25	Under-Grad	Yes	Yes, slight
29	Vyomika	25- 35	Post-Grad	Yes	Yes, significant
30	Anish	18- 25	Under-Grad	Yes	No, not at a
31	Shradha Bhat	25- 35	Post-Grad	Yes	Yes, slight

		Name	Age	Education_Level	Environmental_Awareness_Increase	Changed_Shopping_Habi		
	32	Michelle Lobo	18- 25	Under-Grad	Yes	Yes, slight		
	33	Kathyrine Faith Gracia Philip	18- 25	Under-Grad	No	No, not at a		
	34	Ayush Paul	18- 25	Under-Grad	Yes	No, not at a		
	35	Arshad	18- 25	Under-Grad	Yes	Yes, slight		
	36	Alaina Ashfaq	18- 25	Under-Grad	Yes	Yes, slight		
	37	anju mathew	25- 35	Post-Grad	Yes	Yes, significant		
	38	shankar madhvan	35- 45	Doctorate	Yes	Yes, slight		
	39	Taniya Anil	18- 25	Under-Grad	Yes	Yes, slight		
	40	Alwyn Antony	18- 25	Under-Grad	Yes	Yes, slight		
	41	Arghya Basu	18- 25	Under-Grad	Yes	Yes, slight		
	42	Anthony Gonsalvis	45- 55	Post-Grad	No	No, not at a		
	۸٦	71 aal.						
In [14]:	<pre>import pandas as pd import matplotlib.pyplot as plt import seaborn as sns import warnings warnings.filterwarnings("ignore", category=UserWarning) # Ignores UserWarnings</pre>							
	sns	.set(style=	"whit	cegrid")				
	<pre>plt.figure(figsize=(10, 6)) sns.countplot(data=data, x='Education_Level', hue='Environmental_Awareness_Increase plt.title('Distribution of Education Level across Environmental Awareness Increase' plt.xlabel('Education Level') plt.ylabel('Count') plt.legend(title='Environmental Awareness Increase') plt.xticks(rotation=45) plt.tight_layout() plt.show()</pre>							

```
plt.figure(figsize=(10, 6))
sns.barplot(data=data, x='Gender', y='Importance_of_Sustainability_in_Purchase', ci
plt.title('Importance of Sustainability in Purchase Decisions by Gender')
plt.xlabel('Gender')
plt.ylabel('Average Importance of Sustainability')
plt.tight_layout()
plt.show()
```



C:\Users\smair\AppData\Local\Temp\ipykernel_23812\1649481442.py:21: FutureWarning:
The `ci` parameter is deprecated. Use `errorbar='sd'` for the same effect.
sns.barplot(data=data, x='Gender', y='Importance_of_Sustainability_in_Purchase', ci='sd', palette='muted')



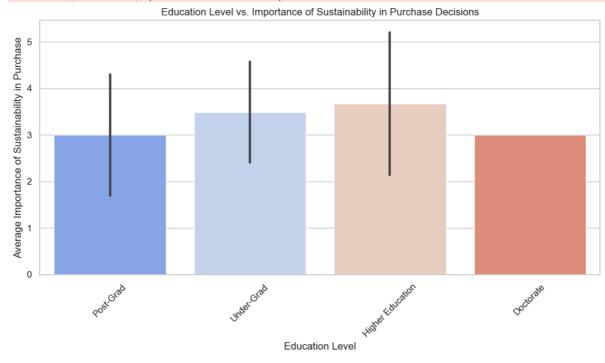
In [15]: # Import libraries if not already imported
 import pandas as pd
 import matplotlib.pyplot as plt
 import seaborn as sns

```
import warnings
warnings.filterwarnings("ignore", category=UserWarning)

# Set the style for seaborn
sns.set(style="whitegrid")

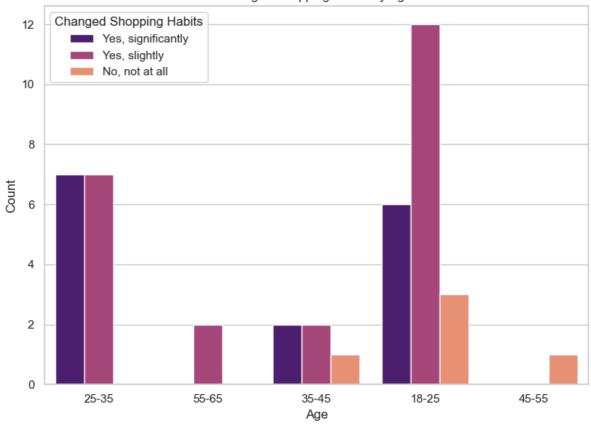
# Plot: Education_Level vs. Importance_of_Sustainability_in_Purchase
plt.figure(figsize=(10, 6))
sns.barplot(data=data, x='Education_Level', y='Importance_of_Sustainability_in_Purc
plt.title('Education Level vs. Importance of Sustainability in Purchase Decisions')
plt.xlabel('Education Level')
plt.ylabel('Average Importance of Sustainability in Purchase')
plt.xticks(rotation=45)
plt.tight_layout()
plt.show()
```

C:\Users\smair\AppData\Local\Temp\ipykernel_23812\3476123598.py:13: FutureWarning:
The `ci` parameter is deprecated. Use `errorbar='sd'` for the same effect.
 sns.barplot(data=data, x='Education_Level', y='Importance_of_Sustainability_in_Purchase', ci='sd', palette='coolwarm')



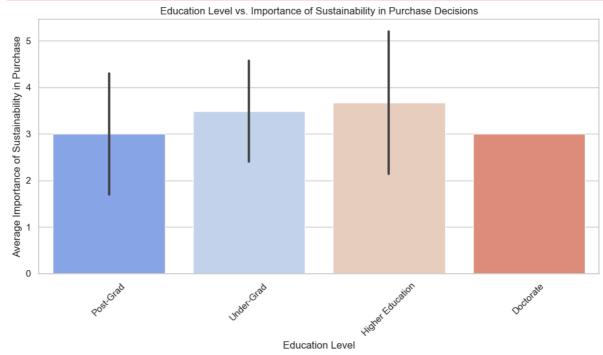
```
# Import libraries if not already imported
In [16]:
         import pandas as pd
         import matplotlib.pyplot as plt
         import seaborn as sns
         # Set the style for seaborn
         sns.set(style="whitegrid")
         # Set up the plot for Age vs. Changed Shopping Habits
         plt.figure(figsize=(8, 6))
         sns.countplot(data=data, x='Age', hue='Changed_Shopping_Habits', palette='magma')
         plt.title('Changed Shopping Habits by Age')
         plt.xlabel('Age')
         plt.ylabel('Count')
         plt.legend(title='Changed Shopping Habits')
         # Show the plot
         plt.tight_layout()
         plt.show()
```





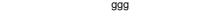
```
# Import libraries if not already imported
In [17]:
          import pandas as pd
          import matplotlib.pyplot as plt
          import seaborn as sns
          import warnings
          warnings.filterwarnings("ignore", category=UserWarning)
          # Set the style for seaborn
          sns.set(style="whitegrid")
          # Plot: Education_Level vs. Importance_of_Sustainability_in_Purchase
          plt.figure(figsize=(10, 6))
          # Convert Importance_of_Sustainability_in_Purchase to numeric if it is not already
          data['Importance of Sustainability in Purchase'] = pd.to numeric(data['Importance of Sustainability in Purchase']
          # Plotting the barplot
          sns.barplot(
              data=data,
              x='Education_Level',
              y='Importance_of_Sustainability_in_Purchase',
              ci='sd',
              palette='coolwarm'
          )
          # Adding labels and title
          plt.title('Education Level vs. Importance of Sustainability in Purchase Decisions')
          plt.xlabel('Education Level')
          plt.ylabel('Average Importance of Sustainability in Purchase')
          plt.xticks(rotation=45)
          # Adjust layout and show the plot
          plt.tight layout()
          plt.show()
```

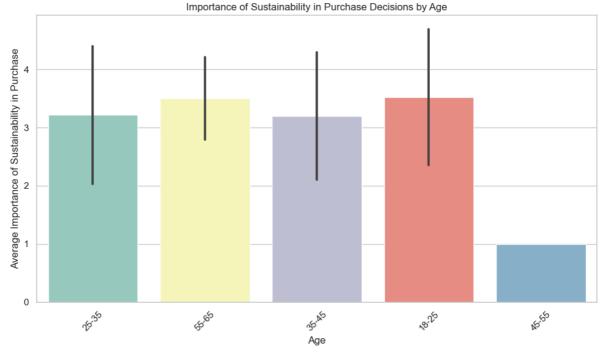
C:\Users\smair\AppData\Local\Temp\ipykernel_23812\3614443603.py:18: FutureWarning:
The `ci` parameter is deprecated. Use `errorbar='sd'` for the same effect.
 sns.barplot(



```
In [18]:
         # Plot: Importance_of_Sustainability_in_Purchase grouped by Age
         plt.figure(figsize=(10, 6))
         # Plotting the barplot
         sns.barplot(
             data=data,
             x='Age',
             y='Importance_of_Sustainability_in_Purchase',
             ci='sd',
             palette='Set3'
         )
         # Adding labels and title
         plt.title('Importance of Sustainability in Purchase Decisions by Age')
         plt.xlabel('Age')
         plt.ylabel('Average Importance of Sustainability in Purchase')
         plt.xticks(rotation=45)
         # Adjust layout and show the plot
         plt.tight_layout()
         plt.show()
         C:\Users\smair\AppData\Local\Temp\ipykernel_23812\2342890243.py:5: FutureWarning:
         The `ci` parameter is deprecated. Use `errorbar='sd'` for the same effect.
```

sns.barplot(

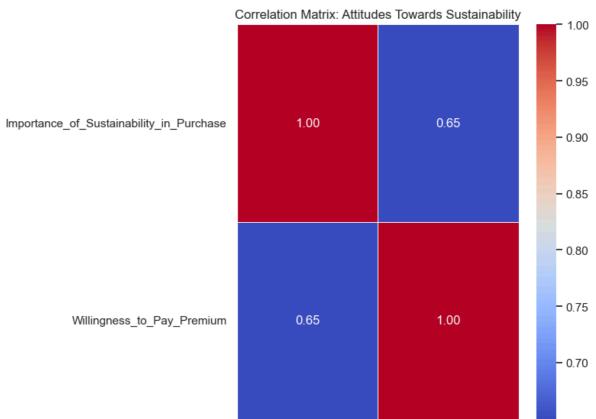




```
In [19]:
         # Import necessary libraries
         import seaborn as sns
         import matplotlib.pyplot as plt
         # Select the relevant columns for the correlation matrix
         columns_to_analyze = [
              'Importance_of_Sustainability_in_Purchase',
              'Belief_in_Individual_Impact',
              'Willingness_to_Pay_Premium'
         ]
         # Calculate the correlation matrix
         corr_matrix = data[columns_to_analyze].corr()
         # Plotting the heatmap
         plt.figure(figsize=(8, 6))
         sns.heatmap(corr_matrix, annot=True, cmap='coolwarm', fmt='.2f', cbar=True, linewic
         # Adding title
         plt.title('Correlation Matrix: Attitudes Towards Sustainability')
         # Show the plot
         plt.tight_layout()
         plt.show()
```

C:\Users\smair\AppData\Local\Temp\ipykernel_23812\1343707897.py:13: FutureWarning: The default value of numeric_only in DataFrame.corr is deprecated. In a future ver sion, it will default to False. Select only valid columns or specify the value of numeric_only to silence this warning.

corr_matrix = data[columns_to_analyze].corr()



Importance_of_Sustainability_in_**PMiltingse**ss_to_Pay_Premium