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Summary Document

List at least 5 things the team did well and will continue doing

1. Researching
2. Fine tuning code
3. Taking down Notes
4. Using various research materials
5. Clarifying and proof reading

List at least 3 things the team did poorly and how you will mitigate them next sprint

1. Communication
2. Reaching out for help
3. Time management

List shout-outs to any team members for excelling in any way

1. Shout out to Ana for getting excited about her graph results

What did you learn as a team this week?

I learned that work can be easier when its shared and more enjoyable when there is someone else to collaborate with.

What did you learn as an individual this week?

As an individual I continue to reinforce that I need to better manage my time and find ways to address my distractions

Code Review

Does your code run smoothly from the top to the bottom of the file?

Yes

Do you have comments explaining what you're doing before you do it?

No

Are you working on the appropriate weekly task (i.e. data wrangling)?

Yes, it is completed

Do you have comments explaining your interpretation of the code results (if applicable) after the code?

Yes

In [8]:
```
import pandas as pd
import numpy as np
import matplotlib.pyplot as plt
```

In [89]:
```
children_education = pd.read_csv('childreneducation.csv')
children_education1 = pd.read_csv('childreneducation1.csv')
```

In [12]:
```
children_education.head()
```

Out[12]:

	Country	Population (2020)	% of Education Budget	% of Literacy	% of children that never attend school	% of poverty
0	India	1380004385	3.1	74	13	21
1	Pakistan	220892340	2.9	59	35	24
2	Guatemala	17915568	2.8	81	14	59
3	Ethiopia	114963588	4.4	51	16	23
4	El Salvador	6486205	3.6	89	6	22

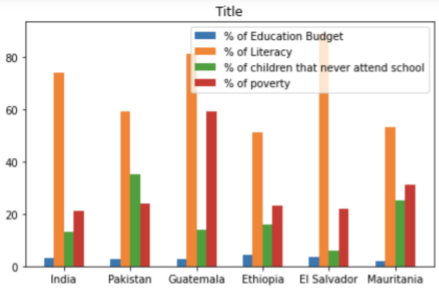
 # Here we can see each countries population and what percentage of their national budget they are spending on education, in addition to what percentage of their population is literate, what percentage of children has never attended school and what percentage of the population lives in poverty.

In [87]:
```
country = children_education['Country'].tolist()
education_budget = children_education ['% of Education Budget'].tolist()
literacy = children_education['% of Literacy'].tolist()
never_attend_school = children_education['% of children that never attend school'].tolist()
poverty = children_education['% of poverty'].tolist()

x = np.arange(len(country))  # the label locations
width = 0.15  # the width of the bars

fig, ax = plt.subplots()
rects1 = ax.bar(x - 3*width/2, education_budget, width, label='% of Education Budget')
rects2 = ax.bar(x - width/2, literacy, width, label='% of Literacy')
rects3 = ax.bar(x + width/2, never_attend_school, width, label='% of children that never attend school')
rects4 = ax.bar(x + 3*width/2, poverty, width, label='% of poverty')

# Add some text for labels, title and custom x-axis tick labels, etc.
ax.set_title('Title')
ax.set_xticks(x)
ax.set_xticklabels(country)
```



 # The graph makes it easier to visualize and see the connections between national school spending, school attendance, literacy rates and poverty. Looking at this graph seems to indicate that there is not much of a connection between literacy rates and poverty, or literacy rates and national spending. There also appears to not be a connection between school attendance and or literacy, which is very surprising.

In [90]:
```
children_education1.head()
```

Out[90]:

	Country	Population (2020)	% of Education Budget	% of Literacy	% of children that never attend school	% of poverty
0	USA	331002651	4.9	99	5.0	9
1	Sweden	10161569	7.6	99	4.0	17
2	Switzerland	8654622	5.1	99	7.0	16
3	Finland	5540720	6.3	100	1.7	12
4	Japan	126476461	3.1	99	1.5	15

 # Here we can see each countries population and what percentage of their national budget they are spending on education, in addition to what percentage of their population is literate, what percentage of children has never attended school and what percentage of the population lives in poverty.

```
#### country = children_education1['Country'].tolist()
education_budget = children_education1 ['% of Education Budget'].tolist()
literacy = children_education1['% of Literacy'].tolist()
```