

## caltext-1

March 4, 2025

```
[51]: '''  
      name:T.sai Kiran  
      roll no:14  
      btech: 6th sem(big data analytics)  
      '''
```

```
[51]: '\nname:T.sai Kiran\nroll no:14\nbtech: 6th sem(bigdat analytics)\n'
```

```
[25]: sentence="Short words are simple, and long words are complex."  
      text=sentence.split(' ')  
      category={"short": [], "medium": [], "Long": []}  
  
      for words in text:  
          if len(words)<=4:  
              category["short"].append(words)  
          elif len(words)>=5 and len(words)<=7:  
              category["medium"].append(words)  
          elif len(words)>7:  
              category["Long"].append(words)  
      for category,text in category.items():  
          print(f"{category}:{text}")
```

```
short:['are', 'and', 'long', 'are']  
medium:['Short', 'words', 'simple,', 'words']  
Long:['complex.']
```

```
[26]: import pandas as pd
```

```
[44]: data1={  
      "student_id": [1,2,3,4,5],  
      "course": ["ca", "ba", "ka", "ra", "da"]  
      }  
  
      data2={  
          "student_id": [1,2,3,4,5],  
          "name": ["sai", "kiran", "divya", "rahul", "david"],
```

```

    "course":["c","b","k","r","d"],
    "email":["ca@gmail.com","ba@gmail.com",None,"ra@gmail.com","da@gmail.com"]

}
d1=pd.DataFrame(data1)
d2=pd.DataFrame(data2)

```

```
[45]: merge=pd.merge(d1,d2,on="student_id",suffixes=["_old","_new"],how="outer")
```

```
[46]: merge
```

```
[46]:
```

	student_id	course_old	name	course_new	email
0	1	ca	sai	c	ca@gmail.com
1	2	ba	kiran	b	ba@gmail.com
2	3	ka	divya	k	None
3	4	ra	rahul	r	ra@gmail.com
4	5	da	david	d	da@gmail.com

```
[47]: merge.fillna("Not Available")
```

```
[47]:
```

	student_id	course_old	name	course_new	email
0	1	ca	sai	c	ca@gmail.com
1	2	ba	kiran	b	ba@gmail.com
2	3	ka	divya	k	Not Available
3	4	ra	rahul	r	ra@gmail.com
4	5	da	david	d	da@gmail.com

```
[ ]:
```