

In []:

1

In [6]:

```

1 def height_differentiator(*heights):
2
3     '''
4         This code recieves 100 input of varying men heights and tell how many
5         men and short and tall. It also tells which category has more men.
6     '''
7     short_men = []
8
9     tall_men = []
10    for i in heights:
11        #heights = float(input('Enter the heights of the men in meters: '))
12        if type(i) != float:
13            print(' invalid input')
14        else:
15            for i in heights:
16                if i <= 1.5:
17                    short_men.append(i)
18                else:
19                    tall_men.append(i)
20            print(f'There are {len(short_men)} short men and {len(tall_men)} tall men')
21            if short_men > tall_men:
22                return f'There are {len(short_men)-len(tall_men)} more short men than
23            else:
24                return f'There are {len(tall_men)-len(short_men)} more tall men than s
25

```

In [3]:

```

1 height_differentiator(4,5,1.5,7,2.5,1.5,3,4,5,6,1.5,3,6)

```

```

invalid input
invalid input
There are 3 short men and 10 tall men

```

Out[3]:

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'There are 7 more tall men than short men'

```

In [29]:

```

1  #months = input('Hello! Which month would like to check? ')
2  #months = months.lower()
3  #def API(months):
4  # This code wants to recieve months and values corresponding to the number of months to
5
6  months = input('Hello! Which month would like to check? ')
7  months = months.lower()
8  mon_range1 = ['april', 'june', 'september', 'november']
9  mon_range2 = ['january', 'march', 'may', 'july', 'august', 'october', 'december']
10 mon_range3 = ['february']
11
12 for month in mon_range1:
13     if month in mon_range1:
14         month_value1 =(input(f'This category takes thirty values; Input your values(sep
15
16         month_value1 =month_value1.split(' ')
17         month_value1 = [float(x)for x in month_value1]
18         avg1 = sum(month_value1)/len(month_value1)
19         print('The API value for the month is: ', avg1)
20     elif month in mon_range2:
21         month_value2 = (input(f'This category takes thirty-one values; Input your value
22         # month_value2 =month_value2.split(' ')
23         month_value2 = [float(x)for x in month_value2]
24         avg2 = sum(month_value2)/len(month_value2)
25         print('The API value for the month is: ', avg2)
26
27     else:
28         leap_mnth_value =(input(f'This category takes twenty-eight values; Input your v
29         #leap_mnth_value =leap_mnth_value.split(' ')
30         leap_mnth_value = [float(x)for x in leap_mnth_value]
31         leap_avg = sum(leap_mnth_value)/len(leap_mnth_value)
32         print('The API value for the month is: ', avg3
33
34
35
36 if api_status <= 50:
37     status = 'Good'
38 elif api_status >=51 and api_status <= 100:
39     status = 'Moderate'
40 elif api_status >=101 and api_status <= 200:
41     status = 'Unhealthy'
42 elif api_status >=201 and api_status <= 300:
43     status = 'Very Unhealthy'
44 else:
45     # status = 'Hazardous'
46
47
48

```

File "C:\Users\HAFEEZ~1\AppData\Local\Temp\ipykernel_4272\1143587288.py",
line 36

```
if api_status <= 50:
```

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SyntaxError: invalid syntax

In []:

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