Code1

September 10, 2023

[1]:
```
#prevalence
population = int(input("Population: "))
existingcases = int(input("Existing Cases: "))
prevalence = existingcases / population
print(prevalence)
print(prevalence * 100000)
```

```
Population:  1780000
Existing Cases:  99
```

```
5.5617977528089886e-05
5.561797752808989
```

[3]:
```
#incidence
newcases = int(input("New cases: "))
incidence = newcases/population
print(incidence)
print(incidence*100000)
```

```
New cases:  19
```

```
1.0674157303370787e-05
1.0674157303370786
```

[5]:
```
#mortality rate
dead = int(input("Number of those who died: "))
segment = int(input("Number of those who had the disease: "))
mortalityrate = dead/segment
print(mortalityrate)
print(mortalityrate*100000)
```

```
Number of those who died:  2
Number of those who had the disease:  99
```

```
0.020202020202020204
2020.2020202020203
```

[7]:
```
#years of potential life lost
lifeexpectancy = 77
```

```
ages = [64,74]
print(lifeexpectancy - ages[0])
print(lifeexpectancy - ages[1])
```

```
13
3
```

[13]:
```
lifelost = [13,3]
ypp1 = sum(lifelost)/len(lifelost)
print(ypp1)
```

```
8.0
```

[24]:
```
#Part2
#prevalence
population = int(input("Population: "))
existingcases = int(input("Existing Cases: "))
prevalence = existingcases / population
print(prevalence)
print(prevalence * 100000)
```

```
Population:  2660000
Existing Cases:  1459

0.0005484962406015038
54.849624060150376
```

[3]:
```
#incidence
newcases = int(input("New cases: "))
incidence = newcases/population
print(incidence)
print(incidence*100000)
```

```
New cases:  248

9.323308270676691e-05
9.32330827067669
```

[5]:
```
#mortality rate
dead = int(input("Number of those who died: "))
segment = int(input("Number of those who had the disease: "))
mortalityrate = dead/segment
print(mortalityrate)
print(mortalityrate*100000)
```

```
Number of those who died:  1
Number of those who had the disease:  1459

0.0006854009595613434
68.54009595613434
```

[26]:
```
#Part3
#prevalence
population = int(input("Population: "))
existingcases = int(input("Existing Cases: "))
prevalence = existingcases / population
print(prevalence)
print(prevalence * 100000)
```

```
Population:  100000
Existing Cases:  3000
```

```
0.03
3000.0
```

[18]:
```
#incidence
newcases = int(input("New cases: "))
incidence = newcases/population
print(incidence)
print(incidence*100000)
```

```
New cases:  2500
```

```
0.025
2500.0
```

[20]:
```
#mortality rate
dead = int(input("Number of those who died: "))
segment = int(input("Number of those who had the disease: "))
mortalityrate = dead/segment
print(mortalityrate)
print(mortalityrate*100000)
```

```
Number of those who died:  40
Number of those who had the disease:  3000
```

```
0.013333333333333334
1333.3333333333335
```

[22]:
```
#Part4
#prevalence
population = int(input("Population: "))
existingcases = int(input("Existing Cases: "))
prevalence = existingcases / population
print(prevalence)
print(prevalence * 100000)
```

```
Population:  1780000
Existing Cases:  15000
```

```
0.008426966292134831
842.6966292134831
```

[28]:
```
#incidence
newcases = int(input("New cases: "))
incidence = newcases/population
print(incidence)
print(incidence*100000)
```

```
New cases:  3000
```

```
0.03
3000.0
```

[30]:
```
#mortality rate
dead = int(input("Number of those who died: "))
segment = int(input("Number of those who had the disease: "))
mortalityrate = dead/segment
print(mortalityrate)
print(mortalityrate*100000)
```

```
Number of those who died:  5
Number of those who had the disease:  15000
```

```
0.0003333333333333333
33.333333333333336
```

[32]:
```
#years of potential life lost
lifeexpectancy = 77
ages = [32,45,28,37]
print(lifeexpectancy - ages[0])
print(lifeexpectancy - ages[1])
```

```
45
32
```

[ ]:
```

```