FML ASSIGNMENT 1

2024-02-04

R Markdown

Source of my Dataset:

```
library(readr)
HeartFailure_Prediction<-
read.csv("C:/Users/deeks/Downloads/heart.csv")
View(HeartFailure_Prediction)</pre>
```

#The descriptive statistics for the dataset:

```
summary(HeartFailure Prediction)
##
                        Sex
                                       ChestPainType
                                                             RestingBP
         Age
##
   Min.
          :28.00
                    Length:918
                                       Length:918
                                                           Min.
                                                                : 0.0
    1st Ou.:47.00
                    Class :character
                                       Class :character
                                                           1st Qu.:120.0
##
##
   Median :54.00
                    Mode :character
                                       Mode :character
                                                           Median :130.0
           :53.51
##
   Mean
                                                           Mean
                                                                  :132.4
    3rd Qu.:60.00
##
                                                           3rd Qu.:140.0
##
   Max.
           :77.00
                                                           Max.
                                                                  :200.0
                                      RestingECG
##
    Cholesterol
                      FastingBS
                                                             MaxHR
         : 0.0
                           :0.0000
                                     Length:918
                                                                : 60.0
## Min.
                    Min.
                                                        Min.
    1st Qu.:173.2
                    1st Qu.:0.0000
                                                         1st Qu.:120.0
##
                                     Class :character
   Median :223.0
                    Median :0.0000
                                     Mode :character
                                                        Median :138.0
##
   Mean
           :198.8
                                                                :136.8
                    Mean
                           :0.2331
                                                         Mean
##
   3rd Qu.:267.0
                    3rd Qu.:0.0000
                                                         3rd Qu.:156.0
## Max.
           :603.0
                    Max.
                           :1.0000
                                                        Max.
                                                                :202.0
## ExerciseAngina
                          01dpeak
                                           ST_Slope
                                                             HeartDisease
##
   Length:918
                              :-2.6000
                                         Length:918
                                                             Min.
                       Min.
                                                                    :0.0000
   Class :character
                       1st Qu.: 0.0000
                                         Class :character
                                                             1st Qu.:0.0000
##
##
   Mode :character
                       Median : 0.6000
                                         Mode :character
                                                             Median :1.0000
##
                       Mean
                              : 0.8874
                                                             Mean
                                                                    :0.5534
##
                       3rd Qu.: 1.5000
                                                             3rd Qu.:1.0000
##
                       Max. : 6.2000
                                                             Max. :1.0000
```

#The Qualitative Variables are:

```
summary(HeartFailure_Prediction$Sex)

## Length Class Mode

## 918 character character

summary(HeartFailure_Prediction$ChestPainType)
```

```
##
      Length Class Mode
##
         918 character character
summary(HeartFailure_Prediction$RestingECG)
##
      Length
                 Class
                            Mode
##
         918 character character
summary(HeartFailure Prediction$ExerciseAngina)
##
      Length
                 Class
                            Mode
##
         918 character character
summary(HeartFailure Prediction$ST Slope)
##
      Length
                 Class
                            Mode
##
        918 character character
#The Quantitative variables are"
summary(HeartFailure_Prediction$Age)
##
     Min. 1st Qu.
                    Median
                              Mean 3rd Qu.
                                              Max.
##
     28.00
            47.00
                     54.00
                             53.51
                                     60.00
                                             77.00
summary(HeartFailure Prediction$RestingBP)
##
      Min. 1st Qu.
                    Median
                              Mean 3rd Qu.
                                              Max.
##
       0.0
             120.0
                     130.0
                             132.4
                                     140.0
                                             200.0
summary(HeartFailure_Prediction$Cholesterol)
     Min. 1st Qu. Median
##
                              Mean 3rd Ou.
                                              Max.
             173.2
##
       0.0
                     223.0
                             198.8
                                     267.0
                                             603.0
summary(HeartFailure_Prediction$FastingBS)
##
      Min. 1st Qu. Median
                              Mean 3rd Qu.
                                              Max.
## 0.0000 0.0000 0.0000 0.2331 0.0000
                                            1.0000
summary(HeartFailure_Prediction$MaxHR)
##
     Min. 1st Qu.
                    Median
                              Mean 3rd Qu.
                                              Max.
##
      60.0
             120.0
                     138.0
                             136.8
                                     156.0
                                             202.0
summary(HeartFailure Prediction$0ldpeak)
##
      Min. 1st Qu.
                    Median
                              Mean 3rd Qu.
                                              Max.
## -2.6000 0.0000
                   0.6000
                            0.8874 1.5000
                                            6.2000
summary(HeartFailure_Prediction$HeartDisease)
      Min. 1st Qu. Median
##
                              Mean 3rd Qu.
                                              Max.
## 0.0000 0.0000 1.0000 0.5534 1.0000 1.0000
```

```
#MEAN OF CHOLESTROL
```

```
mean(HeartFailure_Prediction$Cholesterol)
## [1] 198.7996
#MEDIAN OF CHOLESTROL
median(HeartFailure_Prediction$Cholesterol)
## [1] 223
#MODE OF CHOLESTROL
mode<-function(x){</pre>
  n<-table(HeartFailure_Prediction$Cholesterol)</pre>
  which.max(n)
}
mode(HeartFailure_Prediction$Cholesterol)
## 0
## 1
```

#DESCRIPTIVE STATISTICS FOR A CATEGORIAL VARIABLE

```
table(HeartFailure_Prediction$Sex)
##
     F
##
        Μ
## 193 725
```

#TRANSFORMATION OF HEART FAILURE PREDICTION OF DATASET

```
transform(HeartFailure_Prediction$0ldpeak+ 1)
##
       X_data
## 1
          1.0
## 2
          2.0
## 3
          1.0
## 4
          2.5
## 5
          1.0
## 6
          1.0
## 7
          1.0
## 8
          1.0
## 9
          2.5
## 10
          1.0
## 11
          1.0
## 12
          3.0
## 13
          1.0
## 14
          2.0
## 15
          1.0
## 16
          2.5
## 17
          1.0
```

##	18	1.0				
##	19	2.0				
##		4.0				
##		1.0				
##		2.0				
##		1.0				
##		4.0				
##						
		1.0				
##		1.0				
##		4.0				
##		1.0				
##		1.0				
##		1.0				
##		1.0				
##		1.0				
##		3.0				
##		3.0				
##		1.0				
##		1.0				
##		2.5				
##		1.0				
##	39	1.0				
##	40	2.0				
##	41	1.0				
##	42	1.0				
##	43	1.0				
##	44	1.0				
##	45	2.0				
##		2.0				
##		1.0				
##		1.0				
##		2.0				
##		1.0				
##		3.0				
##		3.0				
##		1.0				
##		1.0				
##		2.5				
##		1.0				
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##		1.0				
##		2.0				
##		2.0				
##		1.0				
##		1.0				
##		1.0				
##		2.0				
##		1.0				
##		1.0				
##	6/	1.0				

```
## 68
           1.0
## 69
           5.0
## 70
           1.0
## 71
           2.0
## 72
           1.0
## 73
           1.0
## 74
           1.0
## 75
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## 78
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## 79
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## 80
           1.0
## 81
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## 83
           1.0
## 84
           1.0
## 85
           2.0
## 86
           2.0
## 87
           3.0
## 88
           3.0
## 89
           1.0
## 90
           1.5
## 91
           1.0
## 92
           1.0
## 93
           1.0
## 94
           2.5
## 95
           1.0
## 96
           3.0
## 97
           1.0
## 98
           1.0
## 99
           1.0
## 100
           1.0
## 101
           2.0
## 102
           1.0
## 103
           3.0
## 104
           2.0
## 105
           1.0
## 106
           1.0
## 107
           1.0
## 108
           1.0
## 109
           1.0
## 110
           1.0
## 111
           2.0
## 112
           4.0
## 113
           1.0
## 114
           1.0
## 115
           1.0
## 116
           2.0
## 117
           1.0
```

```
## 118
           2.5
## 119
           1.0
## 120
           1.0
## 121
           1.0
## 122
           1.0
## 123
           1.0
## 124
           2.0
## 125
           1.0
## 126
           1.0
## 127
           1.0
## 128
           3.0
## 129
           1.0
## 130
           2.5
## 131
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## 137
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## 141
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## 142
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## 143
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## 144
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## 145
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## 147
           1.0
## 148
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## 149
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## 150
           2.0
## 151
           1.0
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           1.0
## 153
           1.0
## 154
           1.0
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## 156
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           1.0
## 161
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           3.0
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           6.0
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## 168
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## 318
           2.8
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## 320
           2.8
## 321
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## 322
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           3.8
## 324
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## 325
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## 441
           4.0
## 442
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## 443
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## 446
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```

```
## 468
           1.1
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## 470
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## 471
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## 472
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## 475
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## 483
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## 484
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## 487
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## 488
           3.0
## 489
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## 491
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## 492
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## 493
           4.0
## 494
           2.7
## 495
           3.5
## 496
           2.0
## 497
           2.0
## 498
           4.0
## 499
           1.0
## 500
           2.0
## 501
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## 502
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## 503
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## 504
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## 506
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## 511
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## 512
           3.0
## 513
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           4.0
## 517
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```

```
## 518
           2.5
## 519
           2.0
## 520
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## 521
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## 537
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           5.0
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## 543
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           4.0
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## 546
           1.2
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## 550
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## 551
           3.0
## 552
           1.0
## 553
           2.8
## 554
           2.8
## 555
           1.3
## 556
           1.0
## 557
           3.0
## 558
           2.8
## 559
           2.4
## 560
           5.0
## 561
           1.2
## 562
           1.1
           3.0
## 563
## 564
           2.1
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## 566
           2.7
           2.5
## 567
```

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## 568
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## 569
           2.5
## 570
           3.5
## 571
           3.0
## 572
           2.5
## 573
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## 574
           2.5
## 575
           2.5
## 576
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## 577
           4.0
## 578
           2.9
## 579
           4.0
## 580
           2.8
## 581
           2.0
## 582
           2.5
## 583
           1.0
## 584
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## 585
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## 587
           3.0
## 588
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## 589
           3.0
## 590
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## 591
           1.2
## 592
           1.0
## 593
           3.0
## 594
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## 595
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## 596
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           1.0
## 611
           1.0
## 612
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## 613
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           1.3
## 615
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           3.4
           2.6
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## 618
           1.3
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           1.2
## 620
           1.2
## 621
           1.4
## 622
           1.6
## 623
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           2.2
## 624
## 625
           5.0
## 626
           1.5
## 627
           1.0
## 628
           1.0
## 629
           3.6
## 630
           1.0
## 631
           2.6
## 632
           2.8
## 633
           4.1
## 634
           2.8
## 635
           2.4
## 636
           3.6
## 637
           1.2
## 638
           2.2
## 639
           1.1
           1.0
## 640
## 641
           1.2
## 642
           1.0
## 643
           1.6
## 644
           3.5
## 645
           1.0
## 646
           1.4
## 647
           3.3
## 648
           1.0
## 649
           4.4
## 650
           1.9
## 651
           1.0
## 652
           2.9
## 653
           1.0
## 654
           1.0
## 655
           1.0
## 656
           1.0
## 657
           1.0
## 658
           1.4
## 659
           1.0
## 660
           3.2
## 661
           1.0
## 662
           1.8
## 663
           1.0
## 664
           1.0
## 665
           2.0
## 666
           2.8
## 667
           1.0
```

```
## 668
           1.8
## 669
           1.0
## 670
           1.6
## 671
           1.0
## 672
           4.6
## 673
           1.0
## 674
           1.0
## 675
           2.4
## 676
           1.2
           2.2
## 677
## 678
           1.0
## 679
           1.9
## 680
           3.3
## 681
           1.6
## 682
           1.0
## 683
           1.0
## 684
           1.3
## 685
           1.0
## 686
           4.6
## 687
           1.6
## 688
           1.0
## 689
           2.1
## 690
           1.3
## 691
           1.0
## 692
           4.0
## 693
           1.0
## 694
           1.0
## 695
           1.8
## 696
           3.0
## 697
           2.6
## 698
           1.8
           3.0
## 699
## 700
           2.5
## 701
           1.8
## 702
           1.0
## 703
           5.2
## 704
           1.0
## 705
           3.6
## 706
           1.0
## 707
           1.0
## 708
           3.2
## 709
           1.0
## 710
           2.0
## 711
           2.0
## 712
           1.4
## 713
           1.1
## 714
           1.2
## 715
           2.1
## 716
           1.6
## 717
           2.0
```

```
## 718
           1.0
## 719
           2.0
## 720
           2.4
## 721
           1.5
## 722
           2.2
## 723
           3.6
## 724
           1.0
## 725
           1.0
## 726
           4.4
## 727
           1.0
## 728
           1.0
## 729
           1.0
## 730
           1.0
## 731
           1.0
## 732
           1.8
## 733
           5.0
## 734
           3.6
## 735
           2.6
## 736
           3.0
## 737
           4.2
## 738
           2.2
## 739
           1.8
## 740
           1.5
## 741
           1.0
## 742
           2.8
## 743
           1.1
## 744
           1.8
## 745
           2.4
## 746
           2.8
## 747
           1.1
## 748
           1.0
## 749
           3.2
## 750
           2.6
## 751
           2.4
## 752
           1.0
## 753
           2.2
## 754
           1.7
## 755
           1.0
## 756
           3.0
## 757
           1.0
## 758
           1.6
## 759
           2.4
## 760
           1.0
## 761
           3.0
## 762
           1.0
## 763
           3.0
## 764
           4.2
## 765
           1.0
## 766
           1.0
## 767
           2.6
```

```
## 768
           1.0
## 769
           3.0
## 770
           1.5
## 771
           1.0
## 772
           6.6
## 773
           1.0
## 774
           2.9
## 775
           2.0
## 776
           4.8
## 777
           2.4
## 778
           1.0
## 779
           4.0
## 780
           1.0
## 781
           1.0
## 782
           1.0
## 783
           2.2
## 784
           1.2
## 785
           2.4
## 786
           1.1
## 787
           3.0
## 788
           1.9
## 789
           2.5
           1.0
## 790
## 791
           2.9
## 792
           5.2
## 793
           4.6
## 794
           1.2
## 795
           1.0
## 796
           1.8
## 797
           2.9
## 798
           1.0
## 799
           1.6
## 800
           1.0
## 801
           2.9
## 802
           3.1
## 803
           1.1
           2.2
## 804
## 805
           3.9
## 806
           2.2
## 807
           3.6
## 808
           1.0
## 809
           1.0
## 810
           1.0
## 811
           2.4
## 812
           2.0
## 813
           2.6
## 814
           2.8
## 815
           1.0
## 816
           2.0
## 817
           1.0
```

```
## 818
           3.8
## 819
           2.6
## 820
           1.8
## 821
           2.2
## 822
           1.0
## 823
           1.6
## 824
           2.8
## 825
           4.5
## 826
           1.2
## 827
           3.4
## 828
           1.2
## 829
           3.2
## 830
           1.0
## 831
           2.4
## 832
           1.0
           1.0
## 833
## 834
           1.4
## 835
           1.0
## 836
           3.8
## 837
           3.8
## 838
           2.6
## 839
           2.8
           2.4
## 840
## 841
           1.0
## 842
           2.2
## 843
           4.0
## 844
           2.0
## 845
           1.0
## 846
           2.0
## 847
           2.2
## 848
           1.0
## 849
           1.0
## 850
           2.8
## 851
           7.2
## 852
           1.0
## 853
           3.5
## 854
           1.0
## 855
           1.2
## 856
           2.6
## 857
           1.0
## 858
           1.4
## 859
           4.6
## 860
           2.5
## 861
           2.4
## 862
           1.6
## 863
           1.8
## 864
           4.0
## 865
           3.8
## 866
           2.4
## 867
           1.0
```

```
## 868
           1.0
## 869
           1.6
## 870
           2.6
## 871
           1.4
## 872
           2.0
## 873
           2.2
## 874
           1.0
## 875
           2.5
## 876
           1.0
## 877
           3.4
## 878
           2.8
## 879
           1.6
## 880
           2.0
## 881
           1.5
## 882
           1.0
## 883
           2.3
## 884
           1.4
## 885
           2.5
## 886
           1.0
## 887
           1.0
## 888
           1.1
## 889
           2.0
           1.8
## 890
## 891
           1.6
## 892
           1.0
## 893
           1.0
## 894
           1.0
## 895
           1.6
## 896
           4.0
## 897
           1.0
## 898
           3.0
## 899
           1.0
## 900
           1.0
## 901
           5.4
## 902
           3.8
## 903
           1.4
## 904
           1.0
## 905
           1.0
## 906
           1.8
## 907
           2.2
## 908
           3.8
## 909
           5.0
## 910
           1.0
## 911
           1.0
## 912
           2.0
## 913
           1.2
## 914
           2.2
## 915
           4.4
## 916
           2.2
```

```
## 917 1.0
## 918 1.0
```

#CREATING A SCATTERPLOT FOR HEART FAILURE PREDICTION DATASET

```
x=HeartFailure_Prediction$Age
y=HeartFailure_Prediction$RestingBP
plot(x,y,main = "AGE Vs RESTINGBP" ,xlab = "Age",ylab = "RestingsBP")
```

AGE Vs RESTINGBP

