## **EXPERIMENT-3**

# PERFORM CORRELATION ANALYSIS AND NORMALIZATION USING R-TOOL

#### **CORRELATION ANALYSIS**

### **OUTPUT:**

## **NORMALIZATION:**

1) MIN-MAX NORMALIZATION

OUTPUT:

2) Z SCORE NORMALIZATION

OUTPUT

```
> A<-c(diabetesl$age)
> mean<-mean(A)
> minimum<-min(diabetesl$age)
> maximum<-max(diabetesl$age)
> minmax<-(A-minimum)/(maximum-minimum)
> minmax
[1] 0.2727273 0.5636364 0.8181818 0.6363636 0.5818182 1.0000000 0.4727273
[8] 0.5090909 0.4363636 0.2545455 0.5818182 0.6000000 0.8000000 0.1454545
[15] 0.5454545 0.3636364 0.1818182 0.0000000 0.8000000
> |
```

```
> A<-c(diabetes[$age)
> mean<-mean(A)
> std<-sd(A)
> zscore<-(A-mean)/std
> zoore
Error: object 'zcore' not found
> zscore
[1] -0.89639917 0.23432815 1.22371368 0.51700973 0.30499855 1.93041763 -0.11902382 0.02231697 -0.26036461 -0.96706856 0.30499855 0.37566894 1.15304329 -1.39109093 0.16365776
[16] -0.54304619 -1.24975014 -1.95645410 1.15304329
> |
```

#### 3) DECIMAL SCALING NORMALIZATION

### OUTPUT

```
> decimalscaling

[1] 0.40 0.56 0.70 0.60 0.57 0.80 0.51 0.53 0.49 0.39 0.57 0.58 0.69 0.33 0.55 0.45 0.35 0.25 0.69

> |
```