

DAY 1

COURSE NAME: DATAWAREHOUSING AND DATAMINING FOR MEDICAL APPLICATIONS

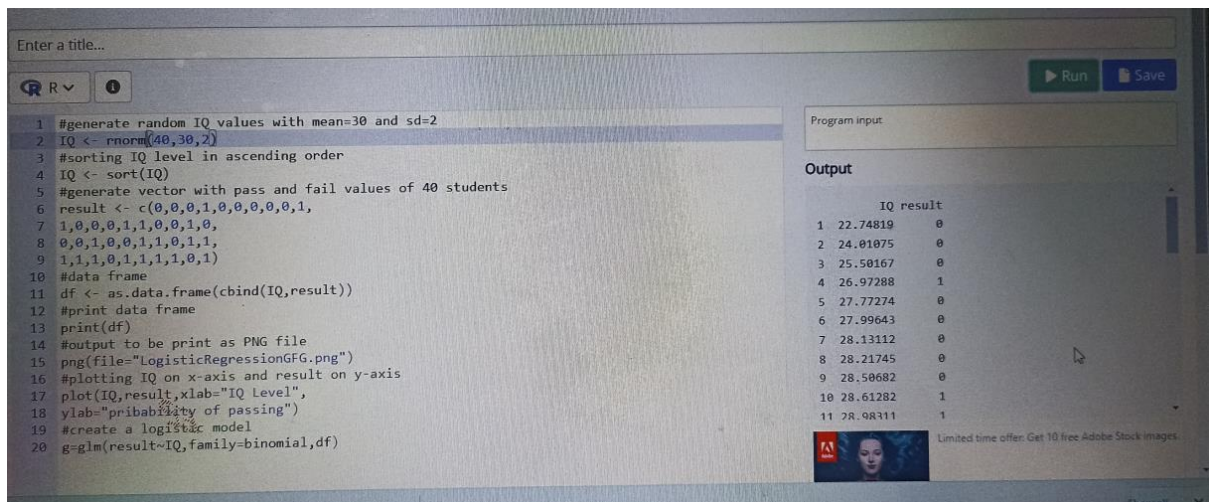
COURSE CODE: CSA1654

NAME OF THE STUDENT:C.GUNA TEJA

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DEPARTMENT:CSE

EXPRIMENT:4



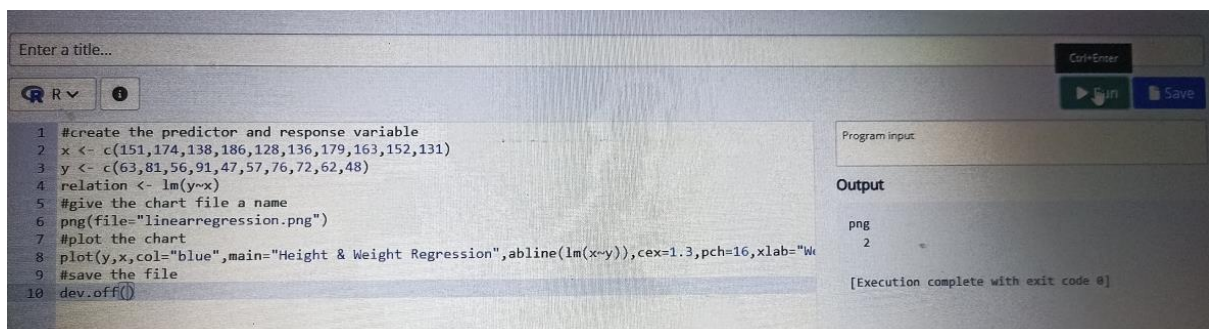
```
1 #generate random IQ values with mean=30 and sd=2
2 IQ <- rnorm(40,30,2)
3 #sorting IQ level in ascending order
4 IQ <- sort(IQ)
5 #generate vector with pass and fail values of 40 students
6 result <- c(0,0,0,1,0,0,0,0,0,0,1,
7 1,0,0,0,1,1,0,0,1,0,
8 0,0,1,0,0,1,1,0,1,1,
9 1,1,1,0,1,1,1,1,0,1)
10 #data frame
11 df <- as.data.frame(cbind(IQ,result))
12 #print data frame
13 print(df)
14 #output to be print as PNG file
15 png(file="LogisticRegressionGFG.png")
16 #plotting IQ on x-axis and result on y-axis
17 plot(IQ,result,xlab="IQ Level",
18 ylab="probability of passing")
19 #create a logistic model
20 g=glm(result~IQ,family=binomial,df)
```

Program input

Output

	IQ	result
1	22.74819	0
2	24.01075	0
3	25.50167	0
4	26.97288	1
5	27.77274	0
6	27.99643	0
7	28.13112	0
8	28.21745	0
9	28.50682	0
10	28.61282	1
11	28.98111	1

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```
1 #create the predictor and response variable
2 x <- c(151,174,138,186,128,136,179,163,152,131)
3 y <- c(63,81,56,91,47,57,76,72,62,48)
4 relation <- lm(y~x)
5 #give the chart file a name
6 png(file="linearregression.png")
7 #plot the chart
8 plot(y,x,col="blue",main="Height & Weight Regression",abline(lm(x~y)),cex=1.3,pch=16,xlab="W
9 #save the file
10 dev.off()
```

Program input

Output

png

2

[Execution complete with exit code 0]