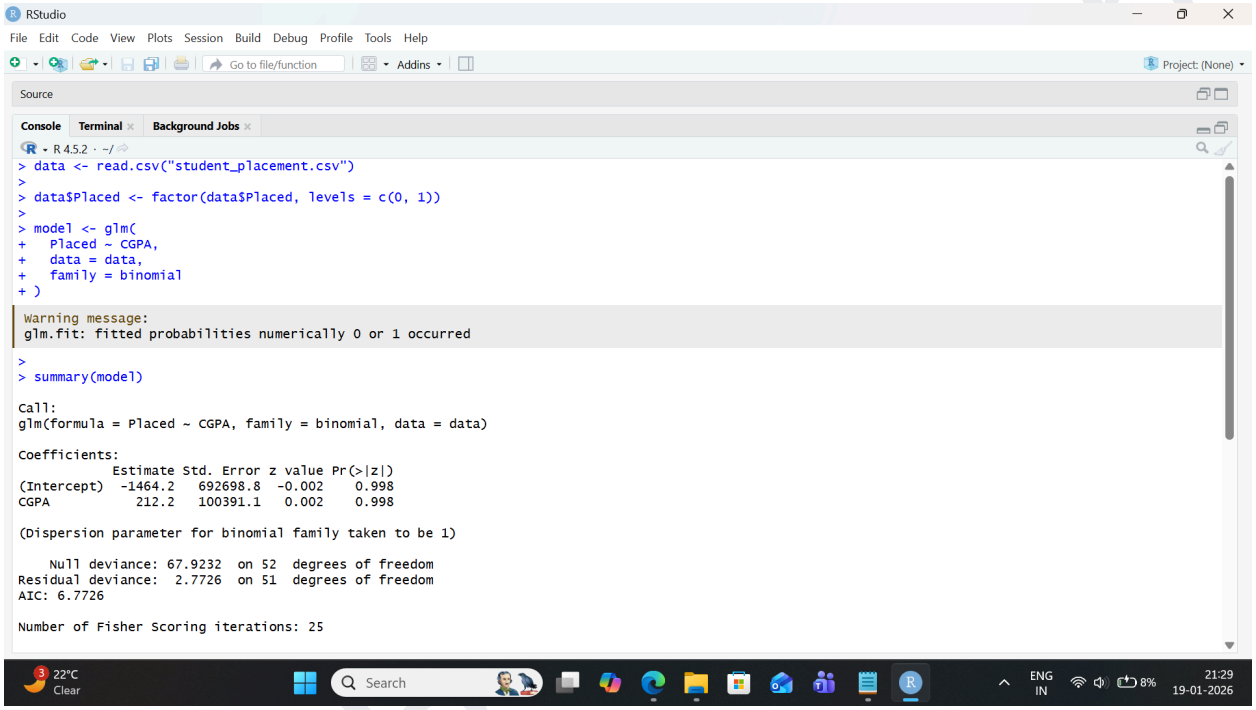
SHETH L.U.J. AND SIR M.V. COLLEGE OF ARTS SCIENCE AND COMMERCE

SUBJECT : R Programming

Practical No 14 Module II

Aim : Performing logistic regression using glm() (R).

Output :



NAME : SHUBHAM SANJAY KARAPE

ROLL NO : S085

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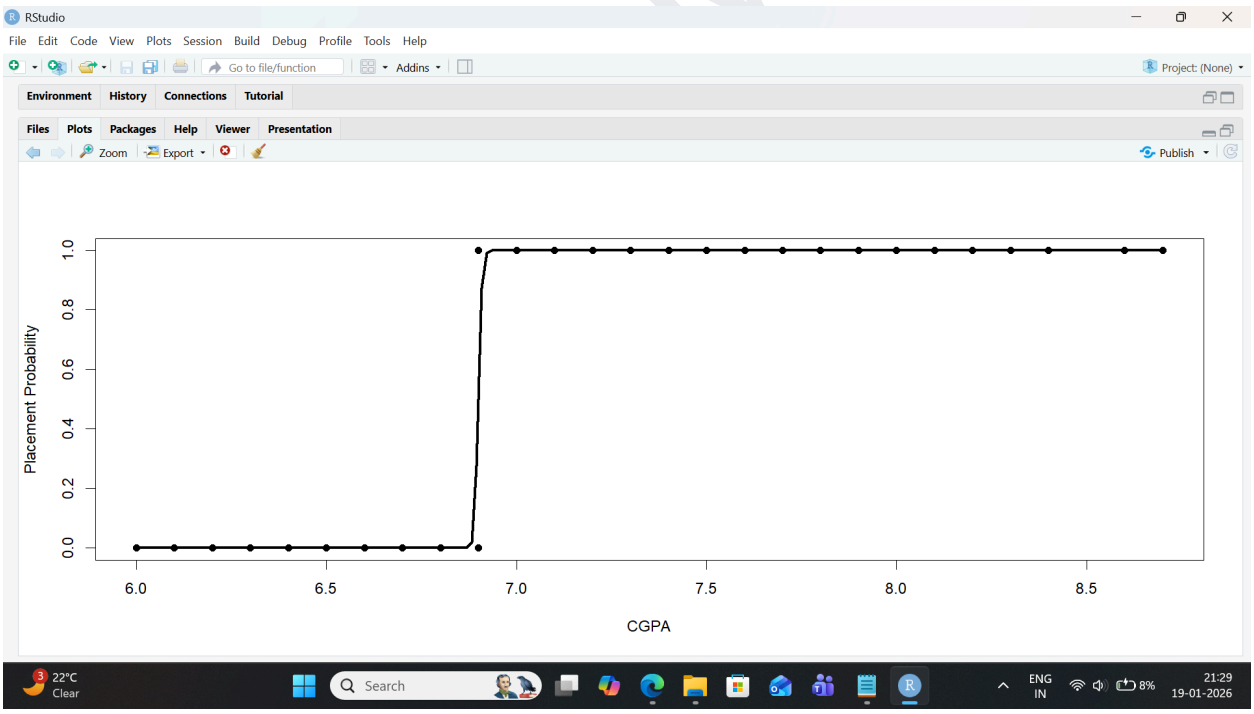
```
(Dispersion parameter for binomial family taken to be 1)

    Null deviance: 67.9232  on 52  degrees of freedom
Residual deviance:  2.7726  on 51  degrees of freedom
AIC: 6.7726

Number of Fisher Scoring iterations: 25

>
> cgpa_seq <- seq(min(data$CGPA), max(data$CGPA), length.out = 200)
>
> predicted_prob <- predict(
+   model,
+   newdata = data.frame(CGPA = cgpa_seq),
+   type = "response"
+ )
>
> plot(
+   data$CGPA,
+   as.numeric(as.character(data$Placed)),
+   xlab = "CGPA",
+   ylab = "Placement Probability",
+   pch = 16
+ )
>
> lines(
+   cgpa_seq,
+   predicted_prob,
+   lwd = 3
+ )
>
```



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