**Flow Control Assignment**

**Problem Statement:**

Sam’s next exam is on ‘Flow Control Statements’. The questions will be based on what you’ve learnt in the respective module.

Questions:

1. Check if the value in the 6th cell of ‘PaymentMethod’ column is ‘Electronic check’. If yes, print

“Yes, the payment method is Electronic check”

> if(customer\_churn$PaymentMethod[6]=='Electronic check'){

+ print('Yes, The payment method is Electronic check')

+ }

[1] "Yes, The payment method is Electronic check"

2. Check the value present in 12th cell of ‘Contract’ column.

If it’s ‘month-to-month’, print ‘The contract is on a month to month basis’

If it’s ‘One year’, print ‘The contract is on a yearly basis’

If it’s ‘Two year’, print ‘The contract is on a two-year basis’

> if(customer\_churn$Contract[12]=='Month-to-month '){

+ print('The contract basis is on month to month')

+ }else if(customer\_churn$Contract[12]=='One year'){

+ print('The contract is yearly basis')

+ }else if(customer\_churn$Contract[12]=='Two year'){

+ print('The contract is two year basis')

+ }

[1] "The contract is two year basis"

3. Use switch to check the gender in 6th cell of ‘gender’ column.

If it’s ‘Male’, give a discount of 20% in ‘MonthlyCharges’

If it’s ‘Female’, give a discount of 50% in ‘MonthlyCharges’

> switch(as.character(customer\_churn$gender[6]),

+ "Male"= customer\_churn$MonthlyCharges\*0.8,

+ "Female"=customer\_churn$MonthlyCharges/2 ) -> c\_monthly\_charges

> head(c\_monthly\_charges)

[1] 14.925 28.475 26.925 21.150 35.350 49.825

> head(customer\_churn$MonthlyCharges)

[1] 29.85 56.95 53.85 42.30 70.70 99.65

4. Use for loop to get the count of customers whose ‘InternetService’ is ‘DSL’

> count=0

> for(i in 1:nrow(customer\_churn)){

+ if(customer\_churn$InternetService[i]=="DSL"){

+ count=count+1

+ }

+ }

> count

[1] 2421

5. Use while to find the number of customers whose tenure is exactly ‘2’ months

> count = 0

> i = 1

> while(i<=nrow(customer\_churn)){

+ if(customer\_churn$tenure[i]==2){

+ count=count+1

+ }

+ i=i+1

+ }

> count

[1] 238