## PROGRAM TemperatureConversion IMPLICIT NONE

```
INTEGER :: i, n
REAL :: celsius, kelvin
CHARACTER(100) :: input_file, output_file
CHARACTER(3) :: index_number
! Enter your index number
index_number = "123"! Replace with your actual index number
! Specify the input and output file names
input_file = "Air-Temperature.csv"
output_file = TRIM(index_number) // "-Air-Temperature-Assignment.csv"
! Open the input file
OPEN(10, FILE=input_file, STATUS='OLD', ACTION='READ')
! Open the output file
OPEN(20, FILE=output_file, STATUS='UNKNOWN', ACTION='WRITE')
! Read the number of temperature values
READ(10, *) n
! Write the header line in the output file
WRITE(20, *) 'Celsius, Kelvin'
! Read and convert the temperature values
DO i = 1, n
  READ(10, *) celsius
  kelvin = celsius + 273.15
  WRITE(20, '(F10.2, F10.2)') celsius, kelvin
```

END DO

! Close the files

CLOSE(10)

CLOSE(20)

PRINT \*, "Conversion complete!"

**END PROGRAM TemperatureConversion**