Krunal Patel
Lab 7

Lab-7

- The version of scheme i use was through replit scheme compiler i use that because it was easy to use and compile the code
- For the reference i had helped from this manual https://www.gnu.org also i watched couple of video of tutorial.
- Description: Purpose of this programme is to convert temperature.
- Temperature Fahrenheit to Celsius and convert back to Celcius from the Fahrenheit.
- Variables we're gonna use are C-to-F temp and F-to-C temp.
- Input and output for the code C to F
  20 C will be converted to 63 F
  -10 C will be converted to 14 F
- Input and output for the code F to C
  110 F will be converted to 43.333333333333336 C
  30 F will be converted to -1.1111111111111112 C

- How the solution will look like for C to F
  - First we need to give value to temp so let's say we have c-to-f=30
  - And then we gonna display result using This Formula degree*1.8+32.0(30*1.8+32.0=82.4)
- How the solution will look like For F to C
  - First we need to give value to the temp so lets say we have F-C = 10
  - And than we gonna use display result (display (/ (* (- temp 32) 5) 9))) to print the result

C to F

```
; function definition of c-f() with an argument temp(temp = 30)
(define (c-to-f temp)

   ; calculate the Fahrenheit by calculating
degree*1.8+32.0(30*1.8+32.0=82.4) and then display the result
   (display (+(* 1.8 temp) 32.0)))

; call the function c-f with an argument 30
(c-f 30)
```

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F to C

```
; function definition of F-to-C() with an argument temp(temp = 20)
(define (F-C temp)

  ; calculate the celcius by calculating degree Substract 32 From
 temp and than multiply that with 5/9.((temp-32)*(5/9)) and then
                    display the result
            (display (/ (* (- temp 32) 5) 9)))

        ; call the function F-to-C with an argument 20
                    (F-C 30)
```