

1. Declare all relevant parameters as constants in Main
2. Accept user input with scanf, then convert to integer with atoi.
3. Validate user input.
4. Initialize a for loop that starts at the initial temperature(from specs), and prints the next value in user defined increments.
5. Call a conversion function, that returns the temperature in F or C.

Functions:

```
/*----- getInput -----*/
|   Function: getInput
|
|   Purpose:  Takes and validates user input.
|
|   @param   none
|
|   @return  returns valid user input as a single char
|-----*/

/*----- convertFtoC -----*/
|   Function: convertFtoC
|
|   Purpose:  Converts a Fahrenheit temperature to Celcius.
|
|   Formula:  C = (F - 32) * (5/9)
|
|   @param   fTemp - Fahrenheit temperature to be converted.
|
|   @return  returns temperature in Celsius.
|-----*/

/*----- convertCtoF -----*/
|   Function: convertCtoF
|
|   Purpose:  Converts a Celcius temperature to Fahrenheit.
|
|   Formula:  C = C * (5/9) + 32
|
|   @param   cTemp - Celsius temperature to be converted.
|
|   @return  returns temperature in Fahrenheit.
|-----*/

/*----- printChart -----*/
|   Function: printChart
|
|   Purpose:  Takes and validates user input.
|
|   @param   none
|
|   @return  returns valid user input as a single char
|-----*/
```

getInput

```
do{
getchar
counter++
}
while(getChar != \n)
```

use a counter to keep track of characters input. If character input great than 1, input is invalid.

Validation

```
atoi(input)
if atoi == 0 or atoi > 9 || atoi < 1
invalid
```

else validates

```
convertCtoF(float input)
plug in formula, return converted temp.
```

```
convertFtoC
same as above.
```

Printchart

```
while(temperature < maxTemp)
printf(Fahr \t convertFtoC          Celc \t convertCtoF())
temperature += step.
```