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BSCS 1-1

Computer Programming 1 – Activity 10 (Temperature Conversion)

Output

```
Temperature Converter

1. Celsius to Farenheit
2. Farenheit to Celsius

Choose conversion (1 or 2): 5

Invalid Choice, Please input 1 or 2

Choose conversion (1 or 2): 2

How many temperatures do you want to convert?: 2

Enter 2 temperatures:

10
40

Converted Temperatures:

10.00°F = -12.32°C
40.00°F = 4.48°C
```

```
Temperature Converter
1. Celsius to Farenheit
Farenheit to Celsius
Choose conversion (1 or 2): 1
How many temperatures do you want to convert?: 5
Enter 5 temperatures:
12
54
23
87
17
Converted Temperatures:
12.00°C = 53.60°F
54.00°C = 129.20°F
23.00°C = 73.40°F
87.00°C = 188.60°F
17.00^{\circ}C = 62.60^{\circ}F
```

Source Code

```
int choice = 0, num;
       printf("Temperature Converter\n\n");
    printf("1. Celsius to Farenheit\n");
    printf("2. Farenheit to Celsius\n");
       printf("\nChoose conversion (1 or 2): ");
       scanf("%d", &choice);
       if(choice != 1 && choice != 2) {
               printf("\nInvalid Choice, Please input 1 or 2");
    printf("\nHow many temperatures do you want to convert?: ");
    scanf("%d", &num);
    printf("\nEnter %d temperatures:\n", num);
       float temperatures[num];
        scanf(" %f", &temperatures[i]);
    printf("\nConverted Temperatures:\n");
    float convertedTemperatures[sizeof(temperatures) /
sizeof(temperatures[0])];
       if(choice == 1)
               convertedTemperatures[i] = (1.8 * temperatures[i]) + 32;
               convertedTemperatures[i] = 0.56 * (temperatures[i] - 32);
               if(choice == 1)
               printf("\n%.2f°C = %.2f°F", temperatures[i],
convertedTemperatures[i]);
               printf("\n^{2}.2f^{F} = ^{2}.2f^{C}", temperatures[i],
convertedTemperatures[i]);
```

```
return 0;
}
```