

# **DIGITAL ASSIGNMENT 2**

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**Question:**

The temperature in Chennai exists somewhere between 28°C to 33°C in a particular week. The temperature in Delhi is 8°C lesser than in Chennai. Likewise, the temperature in Haveri is 5°C more than that of Chennai. Write a C program to find the temperature of Gangtok for a particular week, which is the temperature difference between Delhi and Haveri. Get the temperature of Chennai (0°C) as input for the week of 7 days and the temperature of Gangtok (0°C) as output for the week of 7 days. Implement the program using arrays and validate the rules.

**CODE:**

```
#include <stdio.h>
#define DAYS 7
int main() {
    int chennai[DAYS], delhi[DAYS], haveri[DAYS],
gangtok[DAYS];
    int i;
    printf("Enter the temperature of Chennai for the
week:\n");
    for (i = 0; i < DAYS; i++) {
```

```
scanf("%d", &chennai[i]);
if (chennai[i] < 28 || chennai[i] > 33) {
    printf("Invalid temperature for Chennai.
Temperature should be between 28C and 33C.\n");
    return 1;
}
for (i = 0; i < DAYS; i++) {
    delhi[i] = chennai[i] - 8;
    haveri[i] = chennai[i] + 5;
}
for (i = 0; i < DAYS; i++) {
    gangtok[i] = haveri[i] - delhi[i];
}
printf("\nTemperature of Gangtok for the
week:\n");
for (i = 0; i < DAYS; i++) {
    printf("%dC ", gangtok[i]);
}
printf("\n");
return 0;
}
```