## Digital assignment 2

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## First question:

The temperature in Chennai exists somewhere between 280C to 330C in a particular week. The temperature in Delhi is 8 0C lesser than in Chennai. Likewise, the temperature in Haveri is 5 0C 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 ( 0C) as input for the week of 7 days and the temperature of Gangtok ( 0C) as output for the week of 7 days. Implement the program using arrays and validate the rules.

## **Answer:**

```
#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;
}
```