

42. C program that reads the temperature in centigrade and displays a suitable message according to the temperature state:

```
#include <stdio.h>
```

```
int main() {
```

```
    float temperature;
```

```
    // Read the temperature from the user
```

```
    printf("Input Temperature in centigrade: ");
```

```
    scanf("%f", &temperature);
```

```
    // Display the suitable message according to the temperature state
```

```
    if (temperature < 0) {
```

```
        printf("Freezing weather.\n");
```

```
    } else if (temperature >= 0 && temperature < 10) {
```

```
        printf("Very Cold weather.\n");
```

```
    } else if (temperature >= 10 && temperature < 20) {
```

```
        printf("Cold weather.\n");
```

```
    } else if (temperature >= 20 && temperature < 30) {
```

```
        printf("Normal weather.\n");
```

```
    } else if (temperature >= 30 && temperature < 40) {
```

```
        printf("Its Hot.\n");
```

```
    } else {
```

```
        printf("Its Very Hot.\n");
```

```
    }
```

```
    return 0;
```