Question 1

```c
# include <stdio.h>

void main () {
    int option;
    float temp_in_farh, temp_in_celsius;
    printf (" Option 1: convert from Celsius to Fahrenheit \n");
    printf (" Option 2: convert from Fahreheit to Celsius \n");
    printf (" Enter the option number \n ");
    scanf ("%d", &option);

    switch (option) {
        case 1:
            prinf (" Enter the temperature in celsius \n ");
            scanf ("%f", &temp_in_celsius);
            temp_in_farh = 32 + 1.8 * temp_in_celsius;
            printf (" User's Requirement          : Option 1 \n");
            printf (" Entered temperatue in celsius   :  %f \n", temp_in_celsius);
            printf (" Equivalent temperature in Fahrenheit: %f \n", temp_in_farh);

            break;

        case 2:
            printf (" Enter the temperature in Fahrenheit");
            scanf ("%f", &temp_in_farh);
            temp_in_celsius = ((temp_in_farh - 32) * 5.0) / 9.0;
            printf (" User's Requirement          : Option 2 \n");
            printf (" Entered temperature in Fahrenheit: %f \n", temp_in_farh);
            printf (" Equivalent temperature in Celsius: %f \n", temp_in_celsius);
```

```
        break ;
default :
        printf ("\n Invalid option is entered") ;

    }


}



Question 2


# include <stdio.h>


void main ( ) {

    int  h = 0 , c = 0 , even = 0 , odd = 0 ;
    // h is used as sentinel , c is used to count number of numbers
    unsigned int  num ;

    while ( h != -1) {
        printf (" Enter a number \n") ;
        scanf ("%u" , &num) ;
        printf (" Entered number  : %u" , num) ;

        c += 1 ;
        if (num % 2 == 0)  even++ ;
        else      odd ++ ;

        printf (" Enter any integer to continue or enter
                -1 to stop") ;
        scanf ("%d" , &h) ;
    }
```

```
                                integers
printf ("\nNumber of  numbers  read           : %d", c);
printf ("\nNumber of  even  Integers           : %d", even);
printf ("\n Number of  odd  Integers           : %d", odd);

}
```