Q1. Write a program in C to show implicit data conversion.

soln: #include<stdio.h>
   void main()
   {

           int sml=2, i, limit;   // ASCII code for smiling face is
2.

           char smilly;

           printf("\nNumber of emojies you want to print on
screen: ");
           scanf("%d", &limit);

           smilly = sml; // compiler will convert data type to
char

           // the data type of sml will remain unchanged.
           printf("ASCII code for smilly is %d. \n\n",sml);

           for (i = 1; i <=limit; i++)
           {
                   printf("%d. %c ", i, smilly);   // implicit
type conversion of int data type to char
           }

    }

   Output: Number of emojies you want to print on screen: 10

ASCII code for smilly is 2.

1. ☻ 2. ☻ 3. ☻ 4. ☻ 5. ☻ 6. ☻ 7. ☻ 8. ☻ 9. ☻ 10. ☻

Q2. Write a program in C to compare two user given numbers using if-else statements.

```c
soln:  #include <stdio.h>
   void main()
   {
      int int1, int2;

      printf("Program to compare to user given number.\n\n");

      printf("Input the values for first number : ");
      scanf("%d", &int1);
      printf("Input the values for second number : ");
      scanf("%d", &int2);


      if (int1 == int2)
         printf("\n%d and %d are equal\n", int1, int2);
      else
         printf("\n%d and %d are not equal\n", int1, int2);

   }
```

Output: Program to compare to user given number.

Input the values for first number : 100
Input the values for second number : 101

100 and 101 are not equal