```
#include<stdio.h>

int main(){
    int n;
    printf("Type a number: ");
    scanf("%d",&n);
    int sum=0;
    for (int i=0; i<=n;i++){
        printf("%d ",i);
        sum+=i;
    }
    printf("\nThe sum of n natural number is:%d",sum);
    return 0;
}</pre>
```

```
#include<stdio.h>
int main(){
   int n;
   printf("Type a number: ");
   scanf("%d",&n);
   int sum=0;
   int i=0;
   while ( i<=n){
        printf("%d ",i);
        i++;
        sum+=i;
   }
   printf("\nThe sum of n natural number is:%d",sum);
   return 0;
}</pre>
```

```
#include<stdio.h>
int main(){
   int n;
   printf("Type a number: ");
   scanf("%d",&n);
   int sum=0;
   int i=0;
   do{
      printf("%d ",i);
        sum+=i;
      i++;}
   while ( i<=n);
   printf("\nThe sum of n natural number is:%d",sum);
   return 0;
}</pre>
```

```
Type a number: 8
0 1 2 3 4 5 6 7 8
The sum of n natural number is:36
```

```
#include <stdio.h>
int main(){
    char str1[10], str2[10];
    int i, response=0;
    printf("Enter first string: ");
    scanf("%s", str1);
    printf("Enter second string: ");
    scanf("%s", str2);
    for(i = 0; str1[i] != '\0' && str2[i] != '\0'; i++) {
        if(str1[i] != str2[i]) { response = 1;}}
    if(response ==0 && str1[i]=='\0' && str2[i]=='\0')
    {printf("The Strings are equal.");}
        else{printf("The Strings are unequal.");}
        return 0;
}
```

Enter first string: malaika Enter second string: mustafa The Strings are unequal.

PS C:\Users\Lenovo\Desktop\C world> ./a.exe
Enter the sentence: my name is malaika.
New sentence: MY NAME IS MALAIKA.

```
#include <stdio.h>
int main() {
    int arr[8]={1,2,2,3,4,1,5,5};
    int i , j;
    printf("Unique elements in the array are: ");
    for (i = 0; i < 8; i++) {
        int count = 0;
        for (j = 0; j < 8; j++) {
            if (arr[i] == arr[j] && i != j) {
                count++;
                break;
        if (count == 0) {
           printf("%d ", arr[i]);
   return 0;
```

```
PS C:\Users\Lenovo\Desktop\C world> gcc new.c
PS C:\Users\Lenovo\Desktop\C world> ./a.exe
Unique elements in the array are: 3 4
```

```
#include<stdio.h>
struct Distance
    int feet;
    int inch;
} d1, d2, result;
int main()
    printf("Enter first distance in feet and inch:\n");
    scanf("%d %d", &d1.feet, &d1.inch);
    printf("Enter second distance in feet and inch:\n");
    scanf("%d %d", &d2.feet, &d2.inch);
    // Add distances
    result.feet = d1.feet + d2.feet;
    result.inch = d1.inch + d2.inch;
    // If inch is greater than or equal to 12, convert it to feet
    if(result.inch >= 12)
        result.feet += result.inch/12;
        result.inch = result.inch%12;
    printf("Total distance is %d feet %d inch.", result.feet, result.inch);
    return 0;
```

```
PS C:\Users\Lenovo\Desktop\C world> gcc new.c
PS C:\Users\Lenovo\Desktop\C world> ./a.exe
Enter first distance in feet and inch:
34
45
Enter second distance in feet and inch:
23
46
Total distance is 64 feet 7 inch.
```