

CEW LAB2**Answer#1****For loop:**

```
#include <stdio.h>
int main() {
    int num, i;
    printf("Enter any Number:\t");
    scanf("%d",&num);
    for(i=1; i <= 2*num; i=i+2)
        printf("%d ",i);
    return 0;
}
```

While loop:

```
#include <stdio.h>
int main() {
    int num, i=1;
    printf("Enter any Number:\t");
    scanf("%d",&num);
    while(i <= 2*num){
        printf("%d ",i);
        i=i+2;
    }
    return 0;
}
```

Do-While loop:

```
#include <stdio.h>
int main() {
    int num, i=1;
    printf("Enter any Number:\t");
    scanf("%d",&num);
    do{
        printf("%d ",i);
        i=i+2;
    }while(i <= 2*num);
    return 0;
}
```

Answer#2

```
#include <stdio.h>
int main() {
    int rows, i, j, space;
    printf("Enter number of rows:\n");
    scanf("%d", &rows);
    for (i = 1; i <= rows; i++) {
        for (space = 1; space <= rows - i; space++) {
            printf(" ");
        }
        for (j = 1; j <= i; j++) {
            printf("* ");
        }
        printf("\n");
    }

    return 0;
}
```

Answer#3

```
#include <stdio.h>
int main(){
    char s1[] = "default", s2[] = "default";
    printf("Enter the first string: ");
    scanf("%s", &s1);
    printf("Enter the second string: ");
    scanf("%s", &s2);
    int i;
    for(i = 0; s1[i]==s2[i] && s1[i]!='\0'; i++);
    printf("%d", s1[i] - s2[i]);
    return 0;
}
```

Answer#4

```
#include <stdio.h>
#include <ctype.h>
#include <string.h>
int main(){
    int i=0;
    char str[200], res[200];
```

```
printf("Enter the string: ");
scanf("%[^\n]s", &str);
printf("%s\n",str);
for(i=0;str[i]!='\0';i++)
{
    if(isupper(str[i]))
        res[i]=tolower(str[i]);
    else if(islower(str[i]))
        res[i]=toupper(str[i]);
    else
        res[i] = str[i];
}

printf("%s");
return 0;
}
```

Answer#5

```
#include <stdio.h>
int main(){
    int len, count;
    printf("Enter the length of an array: ");
    scanf("%d", &len);
    int arr[len];
    for(int i = 0; i<len; i++){
        printf("Enter element#%d: ",i+1);
        scanf("%d",&arr[i]);
    }
    printf("The unique elements in your array are:\n");
    for(int i = 0; i<len; i++){
        count = 0;
        for(int j = 0; j<len; j++)
            if(arr[i]==arr[j])
                count++;
        if(count==1)
            printf("%d ", arr[i]);
    }
    return 0;
}
```

Answer#6

```
#include <stdio.h>
int main(){
    struct Distance d1, d2;
    printf("Enter the ft and inch of the first distance: ");
    scanf("%d %d", &d1.ft, &d1.inch);

    printf("Enter the ft and inch of the second distance: ");
    scanf("%d %d", &d2.ft, &d2.inch);

    printf("The total distance is: %d'%d\n", d1.ft+d2.ft,
d1.inch+d2.inch);

    return 0;
}
```