

**Q.1 Write a Program to print 1 to 10 using a while loop.**

For example,

Output:

1 2 3 4 5 6 7 8 9 10

Ans: #include <stdio.h>

```
void main(){
```

```
    int i=1;
```

```
    while (i<=10){
```

```
        printf("\n%d",i);
```

```
        i++;
```

```
    }
```

```
}
```

O\p: /tmp/h7yJNZrb18.o

1

2

3

4

5

6

7

8

9

10

=== Code Exited With Errors ===

**Q.2 Write a Program to print 10 to 1 using a while loop.**

For example,

Output:

10 9 8 7 6 5 4 3 2 1

Ans: #include <stdio.h>

```
void main(){
```

```
    int i=10;
```

```
    while (i>=1){
```

```
        printf("\n%d",i);
```

```
        i--;
```

```
    }
```

```
}  
O\p: /tmp/8wy6FE4skA.o
```

```
10  
9  
8  
7  
6  
5  
4  
3  
2  
1
```

=== Code Exited With Errors ===

### Q.3 Write a Program to print 1 to N using a while loop.

For example,

Input:

Enter any number: 7

Output:

1 2 3 4 5 6 7

Ans: #include <stdio.h>

```
void main(){  
    int i=1,n;  
    printf("choose the number");  
    scanf("\n%d",&n);  
    while (i<=n){  
        printf("\n%d",i);  
        i++;  
    }  
  
}
```

```
}  
O\p: /tmp/asUxtcGVOi.o  
choose the number7
```

```
1  
2  
3  
4
```

5  
6  
7

=== Code Exited With Errors ===

**Q.4 Write a Program to print odd numbers from N to 1 using a while loop.**

For example,

Input:

Enter any number: 15

Output:

15 13 11 9 7 5 3 1

Ans: #include <stdio.h>

```
void main(){
    int i=1,n;
    printf("choose the number:");
    scanf("%d",&n);
    printf("Odd Numbers from 1 to %d:\n", n);
    while (i<=n){
        if(i%2!=0){
            printf("%d",i);
        }
        i++;
    }
```

O\p: /tmp/BoMXJND63Z.o

choose the number:15

Odd Numbers from 1 to 15:

1  
3  
5  
7  
9  
11  
13  
15

=== Code Exited With Errors ===

**Q.5 Write a Program to print leap years between two given numbers using a while loop.**

For example,

Input:

Enter the first number: 2020

Enter the second number: 2040

Output:

2020, 2024, 2028, 2032, 2034, 2040

Ans: #include <stdio.h>

```
void main() {
    int num1, num2, year;

    printf("Enter the number: ");
    scanf("%d", &num1);

    printf("Enter the number: ");
    scanf("%d", &num2);

    year = num1;

    while (year <= num2) {
        if ((year % 4 == 0 && year % 100 != 0) || year % 400 == 0) {
            printf("%d, ", year);
        }
        year++;
    }
}
```

O\p: /tmp/zsRgWDjWtp.o

Enter the number: 2020

Enter the number: 2040

2020, 2024, 2028, 2032, 2036, 2040,

=== Code Exited With Errors ===