

Course
&
Test Series

 CBSE

 ICSE

 NTSE

 Banking &
Insurance

 Central Govt.
Service

 State Govt.
Services

 LAW
Entrance

 MBA
Entrance

 Railways & Metro
Services

...many more

abhyasonline.in

Self-Made Assignment - C Language

While Loop in C Language

Task: Reverse a Number

Objective:

Write a C program to reverse a given positive integer using a while loop.

Instructions:

1. Prompt the user to enter a positive integer.
2. Use a while loop to reverse the digits of the number.
3. Display the reversed number.

Resultant Output

Output

```
Enter a positive integer: 653  
Reversed number: 356
```

Hints to Solve:

- Use a loop to extract digits using $\text{num} \% 10$
- Build the reversed number by multiplying the current reversed value by 10 and adding the new digit
- Use $\text{num} = \text{num} / 10$ to remove the last digit in each iteration
- Stop the loop when num becomes 0