

1. Write a C program to take any number as user input and check whether it is palindrome or not.

Output:

```
PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL  PORTS

● big@hell-na:~/c-proramimg/lab2$ gcc palindrome.c -o palindrome
● big@hell-na:~/c-proramimg/lab2$ ./palindrome
Enter the number :121
The number is palindrome
● big@hell-na:~/c-proramimg/lab2$ ./palindrome
Enter the number :123
The number is not palindrome
○ big@hell-na:~/c-proramimg/lab2$
```

2. Write a C program to find a reverse of a number input by the user.

Output:

```
PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL  PORTS

● big@hell-na:~/c-proramimg/lab2$ gcc reverse.c -o reverse
● big@hell-na:~/c-proramimg/lab2$ ./reverse
Enter the number :456
The reverse is 654
● big@hell-na:~/c-proramimg/lab2$ ./reverse
Enter the number :789
The reverse is 987
○ big@hell-na:~/c-proramimg/lab2$
```

3. Write a C program to take any number as user input and check whether it is Armstrong number or not.

Output:

```
PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL  PORTS
• big@hell-na:~/c-proraming/lab2$ gcc Armstrong.c -o Armstrong -lm
• big@hell-na:~/c-proraming/lab2$ ./Armstrong
Enter a number: 153
153 is an Armstrong number.
• big@hell-na:~/c-proraming/lab2$ ./Armstrong
Enter a number: 123
123 is not an Armstrong number.
○ big@hell-na:~/c-proraming/lab2$
```

4. Write a C program to generate Fibonacci sequence up-to n terms taking n as user input.

Output:

```
PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL  PORTS

● big@hell-na:~/c-proramimg/lab2$ gcc Fibonacci.c -o Fibonacci
● big@hell-na:~/c-proramimg/lab2$ ./Fibonacci
Enter the number of terms: 5
Fibonacci Sequence: 0 1 1 2 3
● big@hell-na:~/c-proramimg/lab2$ ./Fibonacci
Enter the number of terms: 10
Fibonacci Sequence: 0 1 1 2 3 5 8 13 21 34
○ big@hell-na:~/c-proramimg/lab2$
```

5. Write a C program to check whether a number is prime or not.

Output:

```
PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL  PORTS

● big@hell-na:~/c-proramimg/lab2$ gcc CheckPrime.c -o CheckPrime
● big@hell-na:~/c-proramimg/lab2$ ./CheckPrime
Enter a number: 7
7 is a prime number.
● big@hell-na:~/c-proramimg/lab2$ ./CheckPrime
Enter a number: 8
8 is not a prime number.
○ big@hell-na:~/c-proramimg/lab2$
```

6. Write a C program to display all the prime numbers up-to n terms.

Output:

```
PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL  PORTS

• big@hell-na:~/c-proramimg/lab2$ gcc DisplayPrime.c -o DisplayPrime
• big@hell-na:~/c-proramimg/lab2$ ./DisplayPrime
Enter the number of prime numbers: 10
First 10 prime numbers: 2 3 5 7 11 13 17 19 23 29
• big@hell-na:~/c-proramimg/lab2$ ./DisplayPrime
Enter the number of prime numbers: 7
First 7 prime numbers: 2 3 5 7 11 13 17
○ big@hell-na:~/c-proramimg/lab2$
```

7. Write a C program to find all the factors of a natural number.

Output:

```
PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL  PORTS

• big@hell-na:~/c-proraming/lab2$ gcc Factors.c -o Factors
• big@hell-na:~/c-proraming/lab2$ ./Factors
Enter a number: 10
Factors of 10: 1 2 5 10
• big@hell-na:~/c-proraming/lab2$ ./Factors
Enter a number: 55
Factors of 55: 1 5 11 55
○ big@hell-na:~/c-proraming/lab2$
```

8. Write a C program to find the sum of Fibonacci numbers at Even indexes up to N terms.

Output:

```
PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL  PORTS

● big@hell-na:~/c-proraming/lab2$ gcc SumofFibonacci.c -o SumofFibonacci
● big@hell-na:~/c-proraming/lab2$ ./SumofFibonacci
Enter the number of terms: 8
Sum of Fibonacci numbers at even indexes: 12
● big@hell-na:~/c-proraming/lab2$ ./SumofFibonacci
Enter the number of terms: 30
Sum of Fibonacci numbers at even indexes: 514228
○ big@hell-na:~/c-proraming/lab2$
```


9. Write a C program to find the LCM of two numbers.

Output:

```
PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL  PORTS

● big@hell-na:~/c-proramining/lab2$ gcc LCM.c -o LCM
● big@hell-na:~/c-proramining/lab2$ ./LCM
Enter two numbers: 12 14
LCM of 12 and 14 is 84
● big@hell-na:~/c-proramining/lab2$ ./LCM
Enter two numbers: 20 25
LCM of 20 and 25 is 100
○ big@hell-na:~/c-proramining/lab2$ █
```

10. Write a C program to check whether the number is neon number.

Output:

```
PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL  PORTS

● big@hell-na:~/c-proraming/lab2$ gcc Neon.c -o Neon
● big@hell-na:~/c-proraming/lab2$ ./Neon
Enter a number: 9
9 is a Neon number.
● big@hell-na:~/c-proraming/lab2$ ./Neon
Enter a number: 5
5 is not a Neon number.
○ big@hell-na:~/c-proraming/lab2$
```

1. Write a program to take two integers as input from the user and display their sum.

Output:

```
PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL  PORTS

• big@hell-na:~/c-proraming/lab3$ gcc Sum.c -o Sum
• big@hell-na:~/c-proraming/lab3$ ./Sum
Enter two integers: 12 14
Sum: 26
• big@hell-na:~/c-proraming/lab3$ ./Sum
Enter two integers: 6 4
Sum: 10
○ big@hell-na:~/c-proraming/lab3$ █
```

2. Write a program to take a character as input from the user and display its ASCII value.

Output:

```
PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL  PORTS

● big@hell-na:~/c-proramining/lab3$ gcc ASCII.c -o ASCII
● big@hell-na:~/c-proramining/lab3$ ./ASCII
Enter a character: A
ASCII value of 'A' is 65
● big@hell-na:~/c-proramining/lab3$ ./ASCII
Enter a character: a
ASCII value of 'a' is 97
○ big@hell-na:~/c-proramining/lab3$ █
```

3. Write a program to take a string as input from the user and display it in reverse order.

Output:

```
PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL  PORTS
• big@hell-na:~/c-proramng/lab3$ gcc Reverse_String.c -o Reverse_St
• big@hell-na:~/c-proramng/lab3$ ./Reverse_String
Enter a string: kishor
Reversed string: rohsik
• big@hell-na:~/c-proramng/lab3$ ./Reverse_String
Enter a string: who
Reversed string: ohw
○ big@hell-na:~/c-proramng/lab3$
```

4. Write a program that demonstrates the use of different format specifiers in the printf

function to display various types of data.

Your program should: Print an integer in decimal, octal, and hexadecimal formats.

Print a floating-point number with and without decimal places.

Print a character. Print a string

Output:

```
PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL  PORTS

• big@hell-na:~/c-proramimg/lab3$ ./Format_Specifiers
Integer in decimal: 25
Integer in octal: 31
Integer in hexadecimal: 19
Floating-point (default): 12.345000
Floating-point (2 decimal places): 12.35
Character: A
String: Hello, C!
○ big@hell-na:~/c-proramimg/lab3$
```