



Program List

Day 1:

1. Write a program to convert Fahrenheit to Celsius.
2. Write a program to find area of circle / right angel.
3. Write a program to swap two number / without temporary variable.
4. Write a program to find largest number from 3 numbers.
5. Write a program to determine leap year.
6. Write a program to check whether triangle is valid or not.
7. Write a program to find area of any triangle.
8. Write a program to take an input from user and express in word.
9. Write a program to take days as an input and it convert into year, month, days.
10. Write a program to take seconds as an input and convert into hour, minute, seconds.

Day 2:

1. Write a program to check whether it is alphabet, digit, or special character.
2. Write a program to calculate roots of a quadratic equation.
3. Write a program to count digit of a number.
4. Write a program to sum of digit.
5. Write a program to reverse a number.
6. Write a program to check a number palindrome or not.
7. Write a program to find factorial of a number.
8. Write a program to reverse a string.
9. Write a program to check a string palindrome or not.
10. Write a program to convert binary to decimal.

Day 3:

1. Write a program to print 1 to n and sum of all the numbers.
2. Write a program to find the factor of a number and sum of all factors.
3. Write a program to summation of this series $2+4+6+8+\dots+n$
4. Write a program to summation of this series $1+3+5+7+\dots+n$
5. Write a program to summation of this series $1^2+2^2+3^2+4^2+\dots+n^2$
6. Write a program to summation of this series $1^1+2^2+3^3+4^4+\dots+n^n$
7. Write a program to summation of this series $1/1+1/2+1/3+1/4+1/5+\dots+1/n$
8. Write a program to summation of this series $1/1! + 1/2! + 1/3! + 1/4! + 1/5! + \dots + 1/n!$
9. Write a program to summation of this series $1/1^2+2/2^2+3/3^2+4/4^2+\dots+n/n^2$
10. Write a program to summation of this series $1^2-3^2+5^2-7^2+\dots-n^2$

Day 4:

➤ Write a program to print all the pattern

The image displays a 2x5 grid of 10 square panels, each containing a different pattern of white text on a dark gray background. The patterns are as follows:

- Panel 1 (Top Left):** A 5x5 grid of the number '1'.
- Panel 2 (Top Second):** A 5x5 grid of the number '2'.
- Panel 3 (Top Third):** A 5x5 grid of the number '3'.
- Panel 4 (Top Fourth):** A 5x5 grid of the number '4'.
- Panel 5 (Top Right):** A 5x5 grid of the number '5'.
- Panel 6 (Bottom Left):** A 5x5 grid of the letter 'A'.
- Panel 7 (Bottom Second):** A 5x5 grid of the letter 'B'.
- Panel 8 (Bottom Third):** A 5x5 grid of the letter 'C'.
- Panel 9 (Bottom Fourth):** A 5x5 grid of the letter 'D'.
- Panel 10 (Bottom Right):** A 5x5 grid of the letter 'E'.

Day 5:

➤ Write a program to print all the pattern

```
* * * * *
* * * *
* * *
* *
*
```

```
A B C D E
A B C D
A B C
A B
A
```

```
1
1 2
1 2 3
1 2 3 4
1 2 3 4 5
```

```
      *
      * *
    * * *
  * * * *
* * * * *
```

```
      A
    A B
  A B C
A B C D
A B C D E
```

```
1 2 3 4 5
 1 2 3 4
   1 2 3
    1 2
     1
```

```
* * * * *
 * * * *
  * * *
   * *
    *
     *
```

```
A B C D E
 A B C D
  A B C
   A B
    A
```

```
* * * * *
* * * * *
* * * * *
* * * * *
* * * * *
* * * * *
* * * * *
* * * * *
* * * * *
* * * * *
```

Square Hollow Pattern

```
      *
    ***
  *****
*****
*****
```

Day 6:

1. Write a program to check prime or not.
2. Write a program to print all prime number between 1 to n.
3. Write a program to check perfect number.
4. Write a program to check strong number.
5. Write a program to check Armstrong number.
6. Write a program to print Fibonacci series.
7. Write a program to find GCD and LCM.
8. Write a program to sum this series $1+(1+2) +(1+2+3) + (1+2+3+4) +..... (1+2+3+4+.....+n)$.
9. Write a program to Summation of this series $1*3+2*5+3*7+.....n*(2n+1)$.
10. Write a program to find largest number on a list.

Day 7:

1. Write a program to read n number of values and display in reverse order.
2. Write a program to sum of all element of the list.
3. Write a program to count total number of duplicate element of the list.
4. Write a program to sort all the element in ascending order.
5. Write a program to sort all the element in descending order.
6. Write a program to print all unique element of the list.
7. Write a program to find second largest element of the list.
8. Write a program to find summation of 2d list.
9. Write a program to find max and min element of the 2d list.
10. Write a program to find average of the element in a 2d list.