```c
/*

Que 1: Write a C program to print all natural numbers from 1 to n. - using whi
le Loop
Owner: Rushikesh Sanjay Pokharkar
Batch: PPA9

*/

//                                          *********  Solution  *********

#include <stdio.h> // Including Necessary Header Files

void main()
{

    int num;
    int i = 1; //Initialization of the variables

    printf("Enter the number: "); // Display Message
    scanf("%d", &num);            //Taking User Input

    //While loop starts
    while (i <= num)
    {
        printf("%d\n", i);
        i++;
    } // While loop end
}
```

```c
/*

Que 2: Write a C program to print all natural numbers in reverse (from n to 1)
. -Using while loop
Owner: Rushikesh Sanjay Pokharkar
Batch: PPA9

*/

//                                          *********  Solution  *********

#include <stdio.h> // Including Necessary Header Files

void main()
{

    int num; //Initialization of the variables
```

```
    printf("Enter the number: "); // Display Message
    scanf("%d", &num);            //Taking User Input

    //While loop starts
    while (num >= 1)
    {
        printf("%d\n", num);
        num--;
    } // While loop end
}
```

```
/*

Que 3: Write a C program to print all alphabets from a to z. - using while loo
p
Owner: Rushikesh Sanjay Pokharkar
Batch: PPA9

*/

//                                          *********  Solution  *********

#include <stdio.h> // Including Necessary Header Files

void main()
{

    int num = 97; //Initialization of the variables

    //While loop starts
    while (num <= 122)
    {
        printf("%c\n", num);
        num++;
    } // While loop end
}
```

```
/*

Que 4: Write a C program to print all even numbers between 1 to 100. - usingWh
ile loop
Owner: Rushikesh Sanjay Pokharkar
Batch: PPA9

*/

//                                          *********  Solution  *********
```

```c
#include <stdio.h> // Including Necessary Header Files

void main()
{

    int num = 1; //Initialization of the variable

    //While loop starts
    while (num <= 100)
    {
        if (num % 2 == 0)
        { //Condition to check even numbers
            printf("%d\n", num);
        }
        num++;
    } // While loop end
}
```

```c
/*

Que 5: Write a C program to print all odd number between 1 to 100.
Owner: Rushikesh Sanjay Pokharkar
Batch: PPA9

*/

//                                          *********  Solution  *********

#include <stdio.h> // Including Necessary Header Files

void main()
{

    int num = 1; //Initialization of the variable

    //While loop starts
    while (num <= 100)
    {
        if (num % 2 != 0)
        { //Condition to check odd numbers
            printf("%d\n", num);
        }
        num++;
    } // While loop end
}
```

```c
/*

Que 6: Write a C program to find sum of all natural numbers between 1 to n.
Owner: Rushikesh Sanjay Pokharkar
Batch: PPA9

*/

//                                          *********  Solution  *********

#include <stdio.h> // Including Necessary Header Files

void main()
{

    int num, sum = 0; //Initialization of the variables

    printf("Enter the number: "); // Display Message
    scanf("%d", &num);            //Taking User Input

    //While loop starts
    while (num >= 1)
    {
        sum = sum + num;
        num--;
    } // While loop end

    printf("The sum of all natural numbers upto given number is: %d", sum);
}
```

```c
/*

Que 7: Write a C program to find sum of all even numbers between 1 to n.
Owner: Rushikesh Sanjay Pokharkar
Batch: PPA9

*/

//                                          *********  Solution  *********

#include <stdio.h> // Including Necessary Header Files

void main()
{

    int num, sum = 0; //Initialization of the variables

    printf("Enter the number: "); // Display Message
```

```
    scanf("%d", &num);            //Taking User Input

    //While loop starts
    while (num >= 1)
    {
        if (num % 2 == 0)
        { //Condition to check even numbers
            sum = sum + num;
        }
        num--;
    } // While loop end

    printf("The sum of all even numbers upto given number is: %d", sum);
}
```

```
/*

Que 8: Write a C program to find sum of all odd numbers between 1 to n.
Owner: Rushikesh Sanjay Pokharkar
Batch: PPA9

*/

//                                          *********  Solution  *********

#include <stdio.h> // Including Necessary Header Files

void main()
{

    int num, sum = 0; //Initialization of the variables

    printf("Enter the number: "); // Display Message
    scanf("%d", &num);            //Taking User Input

    //While loop starts
    while (num >= 1)
    {
        if (num % 2 != 0)
        { //Condition to check odd numbers
            sum = sum + num;
        }
        num--;
    } // While loop end

    printf("The sum of all odd numbers upto given number is: %d", sum);
}
```

```c
/*

Que 9: Write a C program to print multiplication table of any number.
Owner: Rushikesh Sanjay Pokharkar
Batch: PPA9

*/

//                                          *********  Solution  *********

#include <stdio.h> // Including Necessary Header Files

void main()
{

    int num, i = 1; //Initialization of the variables

    printf("Enter the number: "); // Display Message
    scanf("%d", &num);            //Taking User Input

    //While loop starts
    while (i <= 10)
    {
        printf("%d x %d = %d\n", num, i, i * num);
        i++;
    } // While loop end
}
```

```c
/*

Que 10: Write a C program to count number of digits in a number.
Owner: Rushikesh Sanjay Pokharkar
Batch: PPA9

*/

//                                          *********  Solution  *********

#include <stdio.h> // Including Necessary Header Files

void main()
{

    int num, count = 0; //Initialization of the variables

    printf("Enter the number: "); // Display Message
    scanf("%d", &num);            //Taking User Input
```

```c
    //While loop starts
    while (num > 0)
    {
        num = num / 10;
        count++;
    } // While loop end

    printf("The number of digits in a given number are: %d", count);
}
```

```c
/*

Que 11: Write a C program to find first and last digit of a number.
Owner: Rushikesh Sanjay Pokharkar
Batch: PPA9

*/

//                                          *********  Solution  *********

#include <stdio.h> // Including Necessary Header Files

void main()
{

    int num, firstDigit, LastDigit; // Initialization of necessary variables

    printf("Enter a number: ");
    scanf("%d", &num); // Thaking input from user

    LastDigit = num % 10; // Formula to get last digit of the number

    while (num > 0)
    {
        firstDigit = num % 10; // Formula to get first digit of the number
        num = num / 10;
    }

    printf("The first digit is %d and The last digit is %d", firstDigit, LastD
igit);
}
```

```c
/*

Que 12: Write a C program to find sum of first and last digit of a number.
Owner: Rushikesh Sanjay Pokharkar
Batch: PPA9
```

```c
*/

//                                          *********  Solution  *********

#include <stdio.h> // Including Necessary Header Files

void main()
{

    int num, firstDigit, LastDigit; // Initialization of necessary variables

    printf("Enter a number: ");
    scanf("%d", &num); // Thaking input from user

    LastDigit = num % 10; // Formula to get last digit of the number

    while (num > 0)
    {
        firstDigit = num % 10; // Formula to get first digit of the number
        num = num / 10;
    }

    printf("The Sum of first and last digit of a number is: %d", firstDigit +
LastDigit);
}
```

```c
/*

Que 14: Write a C program to calculate sum of digits of a number.
Owner: Rushikesh Sanjay Pokharkar
Batch: PPA9

*/

//                                          *********  Solution  *********

#include <stdio.h> // Including Necessary Header Files

void main()
{

    int num, sumOfDigits = 0; // Initialization of necessary variables

    printf("Enter a number: ");
    scanf("%d", &num); // Thaking input from user

    while (num > 0)
```

```
    {

        sumOfDigits = sumOfDigits + (num % 10); // Formula to get the sum of d
igits of a number
        num = num / 10;
    }

    printf("The Sum of digits of a number is: %d", sumOfDigits);
}
```

```
/*

Que 15: Write a C program to calculate product of digits of a number.
Owner: Rushikesh Sanjay Pokharkar
Batch: PPA9

*/

//                                          *********  Solution  *********

#include <stdio.h> // Including Necessary Header Files

void main()
{

    int num, productOfDigits = 1; // Initialization of necessary variables

    printf("Enter a number: ");
    scanf("%d", &num); // Thaking input from user

    while (num > 0)
    {

        productOfDigits = productOfDigits * (num % 10); // Formula to get the
product of digits of a number
        num = num / 10;
    }

    printf("The Product of digits of a number is: %d", productOfDigits);
}
```

```
/*

Que 16: Write a C program to enter a number and print its reverse.
Owner: Rushikesh Sanjay Pokharkar
Batch: PPA9
```

```c
*/

//                                          *********  Solution  *********

#include <stdio.h> // Including Necessary Header Files

void main()
{

    int num, revNum = 0, temp; // Initialization of necessary variables

    printf("Enter a number: ");
    scanf("%d", &num); // Thaking input from user

    while (num > 0)
    {

        temp = num % 10;
        revNum = (revNum * 10) + temp; // To get the reverse of the number
        num = num / 10;
    }

    printf("The Reverse Number of the given number is: %d", revNum);
}
```

```c
/*

Que 17: Write a C program to check whether a number is palindrome or not.
Owner: Rushikesh Sanjay Pokharkar
Batch: PPA9

*/

//                                          *********  Solution  *********

#include <stdio.h> // Including Necessary Header Files

void main()
{

    int num, revNum = 0, temp, number; // Initialization of necessary variable
s

    printf("Enter a number: ");
    scanf("%d", &num); // Thaking input from user

    number = num;
    while (num > 0)
```

```
    {

        temp = num % 10;
        revNum = (revNum * 10) + temp; // To get the reverse of the number
        num = num / 10;
    }

    if (number == revNum) // Condition to check numer is palindrome or not
        printf("Yes! The given number is a palindrome number.");
    else
        printf("No! The given number is not an palindrome number.");
}
```

```
/*

Que 18: Write a C program to find frequency of each digit in a given integer.
Owner: Rushikesh Sanjay Pokharkar
Batch: PPA9

*/

//                                          *********  Solution  *********

#include <stdio.h> // Including Necessary Header Files

void main()
{

    int num, temp1, temp, rem, rem2; // Initialization of necessary variables

    printf("Enter a number: ");
    scanf("%d", &num); // Thaking input from user

    temp = num;

    while (num > 0)  // While loop to get the last digit.
    {
        rem = num % 10;
        temp1 = temp;
        int count = 0;

        while (temp1 > 0)   // While loop to get the frequency of the last dig
it
        {
            rem2 = temp1 % 10;

            if (rem == rem2)
            {
```

```
                count++;
            }
            temp1 = temp1 / 10;
        }

        printf("Frequency of %d is: %d\n", rem, count);
        num = num / 10;
    }
}
```

```
/*

Que 19: Write a C program to enter a number and print it in words.
Owner: Rushikesh Sanjay Pokharkar
Batch: PPA9

*/

//                                          *********  Solution  *********

#include <stdio.h> // Including Necessary Header Files

void main()
{

    int num, revNum = 0, temp; // Initialization of necessary variables

    printf("Enter a number: ");
    scanf("%d", &num); // Thaking input from user

    while (num > 0)
    {

        temp = num % 10;
        revNum = (revNum * 10) + temp; // To get the reverse of the number
        num = num / 10;
    }

    while (revNum > 0)
    {
        temp = revNum % 10;

        if (temp == 1)
            printf("One ");
        else if (temp == 2)
            printf("Two ");
        else if (temp == 3)
            printf("Three ");
```

```
        else if (temp == 4)
            printf("Four ");
        else if (temp == 5)
            printf("Five ");
        else if (temp == 6)
            printf("Six ");
        else if (temp == 7)
            printf("Seven ");
        else if (temp == 8)
            printf("Eight ");
        else if (temp == 9)
            printf("Nine ");
        else if (temp == 0)
            printf("Zero ");

        revNum = revNum / 10;
    }
}
```

```
/*

Que 20: Write a C program to print all ASCII character with their values.
Owner: Rushikesh Sanjay Pokharkar
Batch: PPA9

*/

//                                          *********  Solution  *********

#include <stdio.h> // Including Necessary Header Files

void main()
{

    printf("All ASCII characters with their values are as follows...");
    for (int i = 1; i <= 255; i++)
    {
        printf("ASCII Character = %c and It's value = %d.\n", i, i);
    }
}
```

```
/*

Que 21: Write a C program to find power of a number using for loop.
Owner: Rushikesh Sanjay Pokharkar
Batch: PPA9
```

```c
*/

//                      *********  Solution  *********

#include <stdio.h> // Including Necessary Header Files

void main()
{

    int num, power, result = 1; // Initialize the necessary variables

    printf("Enter a number: ");
    scanf("%d", &num); // Take base number Input from user
    printf("Enter the power: ");
    scanf("%d", &power); // Take exponent number Input from user

    for (int i = 1; i <= power; i++)
    {
        result = result * num; //Get the power of the number
    }

    printf("The %d th power of the number %d is(%d ^ %d): %d", power, num, num
, power, result);
}
```

```c
/*

Que 22: Write a C program to find all factors of a number.
Owner: Rushikesh Sanjay Pokharkar
Batch: PPA9

*/

//                      *********  Solution  *********

#include <stdio.h> // Including Necessary Header Files

void main()
{

    int num; // Initialize the necessary variables

    printf("Enter a number: ");
    scanf("%d", &num); // Take a number Input from user

    printf("All factors of a number %d are: ", num);

    for (int i = 1; i <= num; i++)
```

```
    {
        if (num % i == 0)
        { // Condition to know the number is factor of given number or not
            printf("%d ", i);
        }
    }
}
```

```
/*

Que 23: Write a C program to calculate factorial of a number.
Owner: Rushikesh Sanjay Pokharkar
Batch: PPA9

*/

//                      *********  Solution  *********

#include <stdio.h> // Including Necessary Header Files

void main()
{

    int num, fact = 1; // Initialize the necessary variables
label:
    printf("\nEnter a number: ");
    scanf("%d", &num); // Take a number Input from user

    if (num < 0)
    { // check number is negative or not
        printf("Can't find the factorial of negative numbers.");
        goto label; // If number is negative then call the label for reexecuti
on of code
    }
    else
    {
        for (int i = 1; i <= num; i++)
        {
            fact = fact * i; // Calculating factorial of a number..
        }
    }
    printf("The factorial of the number %d is: %d", num, fact);
}
```

```
/*

Que 24: Write a C program to find HCF (GCD) of two numbers.
```

```c
Owner: Rushikesh Sanjay Pokharkar
Batch: PPA9

*/

//                      *********  Solution  *********

#include <stdio.h> // Including Necessary Header Files

void main()
{
    int num1, num2, min, gcd; // Initialization of necessary variables

    printf("Enter First Number: ");
    scanf("%d", &num1); // Get input first number

    printf("Enter Second Number: ");
    scanf("%d", &num2); // Get input second number

    min = (num1 < num2) ? num1 : num2; // Check minimum of two numbers

    for (int i = 1; i <= min; i++) // For loop to get gcd
    {
        if (num1 % i == 0 && num2 % i == 0)
        {
            gcd = i; // store the gcd
        }
    }

    printf("The GCD of %d and %d is: %d", num1, num2, gcd);
}
```

```c
/*

Que 25: Write a C program to find LCM of two numbers.
Owner: Rushikesh Sanjay Pokharkar
Batch: PPA9

*/

//                      *********  Solution  *********

#include <stdio.h> // Including Necessary Header Files

void main()
{

    int num1, num2, max; // Initialization of necessary variables
```

```c
    printf("Enter First Number: ");
    scanf("%d", &num1); // Get input first number

    printf("Enter Second Number: ");
    scanf("%d", &num2); // Get input second number

    if (num1 > num2) // Check maximum of two numbers
    {
        max = num1;
    }
    else
    {
        max = num2;
    }

    while (1) // Initialise infinite while loop
    {
        if (max % num1 == 0 && max % num2 == 0) // Check for the LCM of given
two numbers
        {
            printf("The LCM of %d and %d is: %d", num1, num2, max);
            break;
        }
        max++;
    }
}
```

```c
/*

Que 26: Write a C program to check whether a number is Prime number or not.
Owner: Rushikesh Sanjay Pokharkar
Batch: PPA9

*/

//                      *********  Solution  *********

#include <stdio.h> // Including Necessary Header Files

void main()
{

    int num, count = 0; //Initialization of variables

    printf("Enter a number: ");
    scanf("%d", &num); // Taken a user input
```

```c
    for (int i = 1; i <= num; i++)
    {
        if (count > 2)
        {
            break; // Check if count of numbers divided is greater then 2 then
 it is not an prime number hence break the loop.
        }

        if (num % i == 0)
        {
            count++; // Check factors of a number and increase the count
        }
    }

    if (count <= 2)
    {
        printf("The given number %d is a prime number.", num);
    }
    else
    {
        printf("The given number %d is not an prime number.", num);
    }
}
```

```c
/*

Que 27: Write a C program to print all Prime numbers between 1 to n.
Owner: Rushikesh Sanjay Pokharkar
Batch: PPA9

*/

//                      *********  Solution  *********

#include <stdio.h> // Including Necessary Header Files

void main()
{

    int num; //Initialization of variables

    printf("Enter a number: ");
    scanf("%d", &num); // Taken a user input

    printf("All Prime Numbers Between 1 to %d are: ", num);

    for (int i = 1; i <= num; i++) // For loop to print prime numbers from 1 t
o n
```

```
    {
        int count = 0;
        for (int j = 1; j <= i; j++) // For loop to check number is prime or n
ot.
        {
            if (count > 2)
            {
                break; // Check if count of numbers divided is greater then 2
then it is not an prime number hence break the loop.
            }
            if (i % j == 0)
            {
                count++; // Check factors of a number and increase the count
            }
        }
        if (count <= 2)
        {
            printf("%d ", i); // If number is prime then print the number.
        }
    }
}
```

```
/*

Que 28: Write a C program to find sum of all prime numbers between 1 to n.
Owner: Rushikesh Sanjay Pokharkar
Batch: PPA9

*/

//                      *********  Solution  *********

#include <stdio.h> // Including Necessary Header Files

void main()
{

    int num, sum = 0; //Initialization of variables

    printf("Enter a number: ");
    scanf("%d", &num); // Taken a user input

    for (int i = 1; i <= num; i++) // For loop to print prime numbers from 1 t
o n
    {
        int count = 0;
        for (int j = 1; j <= i; j++) // For loop to check number is prime or n
ot.
```

```
        {
            if (count > 2)
            {
                break; // Check if count of numbers divided is greater then 2
then it is not an prime number hence break the loop.
            }
            if (i % j == 0)
            {
                count++; // Check factors of a number and increase the count
            }
        }
        if (count <= 2)
        {
            sum = sum + i; // calculate sum of prime numbers
        }
    }

    printf("The sum of all prime numbers Between 1 to %d is: %d", num, sum);
}
```

```
/*

Que 29: Write a C program to find all prime factors of a number.
Owner: Rushikesh Sanjay Pokharkar
Batch: PPA9

*/

//                      *********  Solution  *********

#include <stdio.h> // Including Necessary Header Files

void main()
{

    int num; // Initialize the necessary variables

    printf("Enter a number: ");
    scanf("%d", &num); // Take a number Input from user

    printf("All Prime factors of a number %d are: ", num);

    for (int i = 1; i <= num; i++) //For loop to check factors of a number
    {
        int count = 0;
        if (num % i == 0) // Condition to know the number is factor of given n
umber or not
        {
```

```
            for (int j = 1; j <= i; j++) // For loop to check factor number is
 prime or not.
            {
                if (count > 2)
                {
                    break; // Check if count of numbers divided is greater the
n 2 then it is not an prime number hence break the loop.
                }

                if (i % j == 0)
                {
                    count++; // Check factors of a number and increase the cou
nt
                }
            }

            if (count <= 2)
            {
                printf("%d ", i); //If factor number is prime then print it..
            }
        }
    }
}
```

```
/*

Que 30: Write a C program to check whether a number is Armstrong number or Not
.
Owner: Rushikesh Sanjay Pokharkar
Batch: PPA9

*/

//                      *********  Solution  *********

#include <stdio.h> // Including Necessary Header Files

void main()
{
    int num, number, temp, result = 0; //Initialization of necessary variables

    printf("Enter a Number: ");
    scanf("%d", &num); //Taking user input number

    number = num; // num is stored for future purpose

    int temp1 = num, count = 0;
```

```
    while (temp1 > 0)
    {
        count++;
        temp1 = temp1 / 10;
    }

    while (num > 0) //While loop to check number is Armstrong number or not
    {
        temp = num % 10;
        int rem = 1;
        for (int i = 0; i < count; i++)
        {
            rem = rem * temp;
        }

        result = result + rem;
        num = num / 10;
    }

    if (number == result) //One of the condition to check number is armstrong
or not
    {
        printf("The given number %d is an Armstrong number.", number);
    }
    else
    {
        printf("The given number %d is not an Armstrong number.", number);
    }
}
```

```
/*

Que 31: Write a C program to print all Armstrong numbers between 1 to n.
Owner: Rushikesh Sanjay Pokharkar
Batch: PPA9

*/

//                      *********  Solution  *********

#include <stdio.h> // Including Necessary Header Files

void main()
{
    int num; //Initialization of necessary variables

    printf("Enter a Number: ");
    scanf("%d", &num); //Taking user input number
```

```
    for (int i = 1; i <= num; i++)
    {
        int num1 = i;
        int temp1 = num1, count = 0, result = 0, number, temp; //Initializatio
n of necessary variables
        number = num1;                                          // num is store
d for future puropse

        while (temp1 > 0) // While loop for counting the number of digits in a
 given number.
        {
            count++;
            temp1 = temp1 / 10;
        }

        while (num1 > 0) //While loop to check number is Armstrong number or n
ot
        {
            temp = num1 % 10;
            int rem = 1;
            for (int j = 0; j < count; j++) // For loop to get the power of ea
ch digit for count number of times.
            {
                rem = rem * temp;
            }

            result = result + rem;
            num1 = num1 / 10;
        }

        if (number == result) //One of the condition to check number is armstr
ong or not
        {
            printf("%d ", number);
        }
    }
}
```

```
/*

Que 32: Write a C program to check whether a number is Perfect number or Not.
Owner: Rushikesh Sanjay Pokharkar
Batch: PPA9

*/

//                      *********  Solution  *********
```

```c
#include <stdio.h> // Including Necessary Header Files

void main()
{
    int num, result = 0; //Initialization of necessary variables

    printf("Enter a Number: ");
    scanf("%d", &num); //Taking user input number

    for (int i = 1; i < num; i++) // For loop to ckeck number is perfect numbe
r of not.
    {
        if (num % i == 0) // Condition for perfect number.
        {
            result = result + i;
        }
    }

    if (num == result) //If number is perfect is perfect then print the result
.
    {
        printf("The given number %d is an Perfect Number.", num);
    }
    else
    {
        printf("The given number %d is not an Perfect Number.", num);
    }
}
```

```c
/*

Que 33: Write a C program to print all Perfect numbers between 1 to n.
Owner: Rushikesh Sanjay Pokharkar
Batch: PPA9

*/

//                      *********  Solution  *********

#include <stdio.h> // Including Necessary Header Files

void main()
{
    int num; //Initialization of necessary variables

    printf("Enter a Number: ");
    scanf("%d", &num); //Taking user input number
```

```
    printf("All Perfect Numbers Between 1 to %d are: ", num);

    for (int i = 1; i <= num; i++) // For loop to iterate for n number of time
s
    {
        int num1 = i, result = 0;      //Initialization of necessary variables
        for (int j = 1; j < num1; j++) // Number is perfect number or not.
        {
            if (num1 % j == 0) // Condition for perfect number.
            {
                result = result + j;
            }
        }

        if (num1 == result) // If number is perfect then print it. Otherwise g
o for next iteration
        {
            printf("%d ", num1);
        }
    }
}
```

```
/*

Que 34: Write a C program to check whether a number is Strong number or not.
Owner: Rushikesh Sanjay Pokharkar
Batch: PPA9

*/

//                      *********  Solution  *********

#include <stdio.h> // Including Necessary Header Files

void main()
{
    int num, number, rem, result = 0; //Initialization of necessary variables

    printf("Enter a Number: ");
    scanf("%d", &num); //Taking user input number

    number = num;
    while (num > 0) // While loop to get a perfect number.
    {
        rem = num % 10; // get a digit of a number
        int fact = 1;
```

```
        for (int i = 1; i <= rem; i++) // For loop to calculate factorial of a
 number.
        {
            fact = fact * i;
        }
        result = result + fact; // sum of factorial of each digits in a number
        num = num / 10;
    }

    if (number == result) // get the result by checking the given number and r
esult number is same or not.
    {
        printf("The given number %d is an Strong Number.", number);
    }
    else
    {
        printf("The given number %d is not an Strong Number.", number);
    }
}
```

```
/*

Que 35: Write a C program to print all Strong numbers between 1 to n.
Owner: Rushikesh Sanjay Pokharkar
Batch: PPA9

*/

//                      *********  Solution  *********

#include <stdio.h> // Including Necessary Header Files

void main()
{
    int num; //Initialization of necessary variables

    printf("Enter a Number: ");
    scanf("%d", &num); //Taking user input number

    printf("All Strong Numbers Between 1 to %d are: ", num);

    for (int a = 1; a <= num; a++) //For loop to iterate over n number of time
s
    {
        int num1 = a;
        int number, rem, result = 0; //Initialization of necessary variables
        number = num1;
        while (num1 > 0) // While loop to get a perfect number.
```

```
        {
            rem = num1 % 10; // get a digit of a number
            int fact = 1;
            for (int i = 1; i <= rem; i++) // For loop to calculate factorial
of a number.
            {
                fact = fact * i;
            }
            result = result + fact; // sum of factorial of each digits in a nu
mber
            num1 = num1 / 10;
        }

        if (number == result) // get the result by checking the given number a
nd result number is same or not.
        {
            printf("%d ", number);
        }
    }
}
```

```
/*

Que 36: Write a C program to print Fibonacci series up to n terms.
Owner: Rushikesh Sanjay Pokharkar
Batch: PPA9

*/

//                      *********  Solution  *********

#include <stdio.h> // Including Necessary Header Files

void main()
{
    int num; //Initialization of necessary variables

    printf("Enter a Number: ");
    scanf("%d", &num); //Taking user input number

    int num1 = 0, num2 = 1, result; // Initialise required variables

    printf("Fibonacci Series up to %d terms is: ", num);
    printf("%d %d ", num1, num2); // First two default terms of the fibonacci
series

    for (int i = 2; i < num; i++) // For loop to print next terms of fibonacci
 series from third term.
```

```
    {
        result = num1 + num2;
        printf("%d ", result);
        num1 = num2;
        num2 = result;
    }
}
```