# **PF LAB:5**

**24K-O514**

**MUHAMMAD**

**UMER FAROOQ**

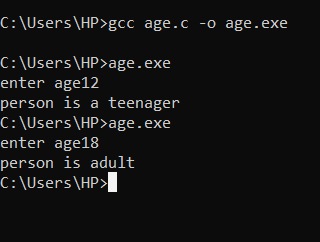
**QUESTION 1:**

**Write a program that categorizes a person's age into different life stages: Child, Teenager, Adult, and Senior, using nested if-else statements.**

**A screen shot of a computer program

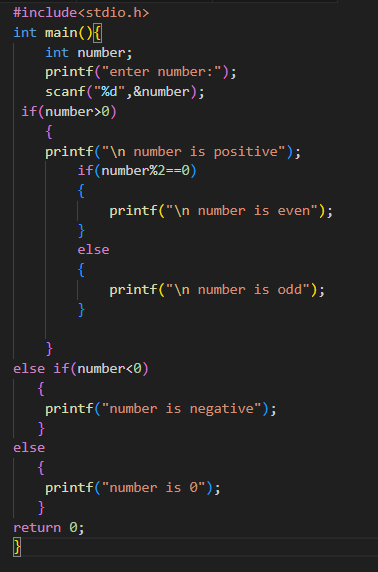
Description automatically generated**

**OUTPUT:**

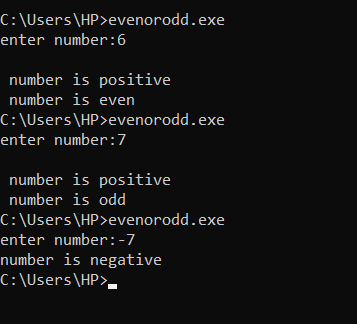
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**QUESTION 2:**

**Create a program that determines if a number is positive, negative, or zero, and if it’s positive, checks if it’s an even or odd number.**

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**OUTPUT:**

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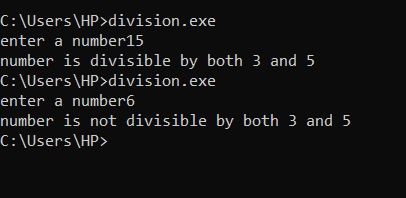
**QUESTION 3:**

**Write a program that checks if a number is divisible by both 3 and 5 using logical operators.**

**A screen shot of a computer program

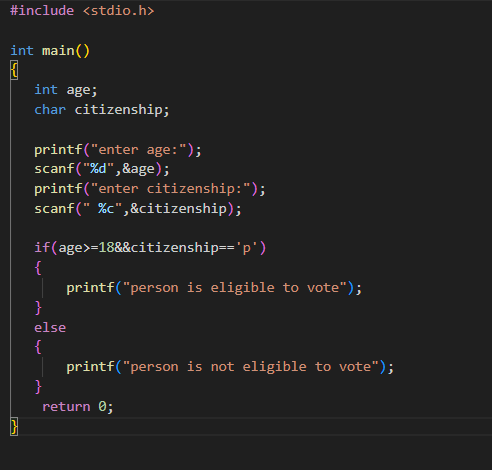
Description automatically generated**

**OUTPUT:**

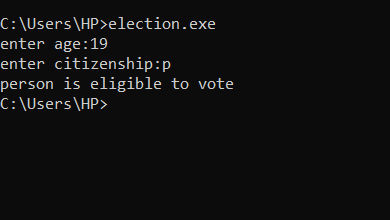
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QUESTION 4:

Create a program that checks if a person is eligible to vote based on their age and citizenship status.

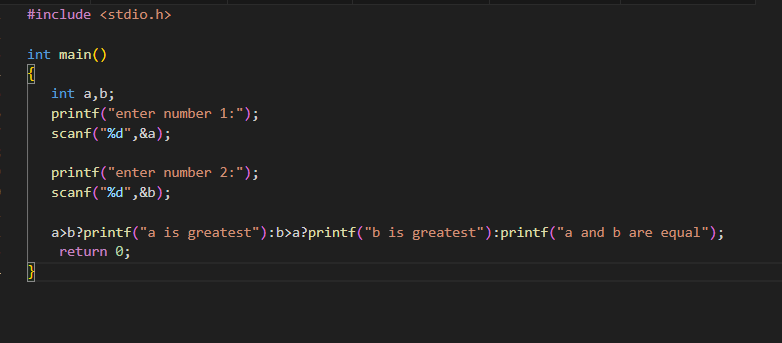


OUTPUT:

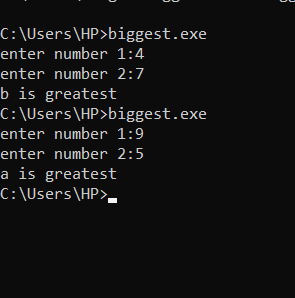


QUESTION 5:

Write a program using a ternary operator to find the maximum of two numbers.

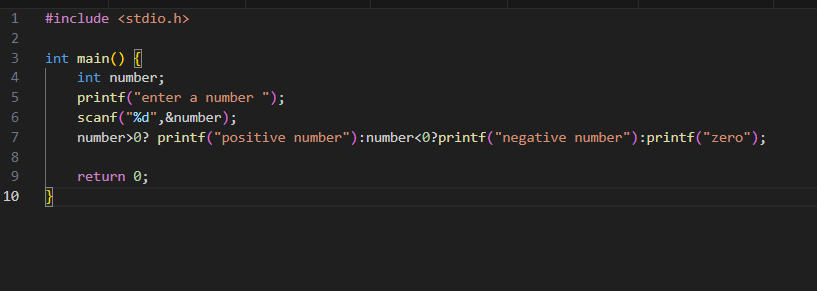


OUTPUT:

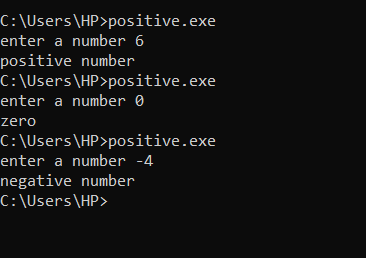


QUESTION 6:

Use the ternary operator to check if a number is positive, negative, or zero.

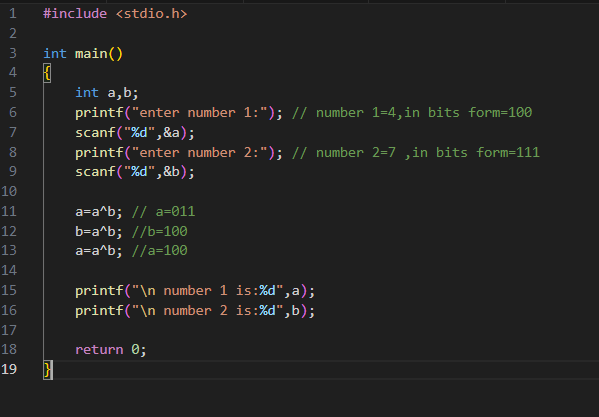


OUTPUT:

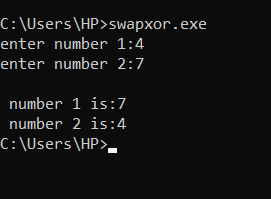


QUESTION 7:

Write a program to swap two numbers using bitwise XOR.

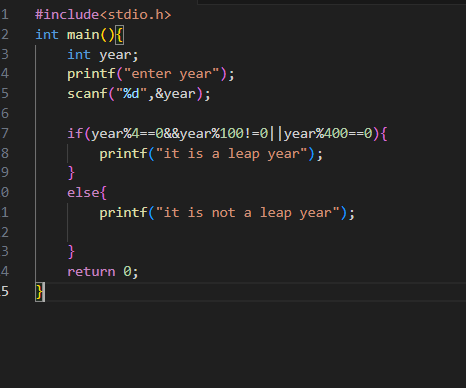


OUTPUT:

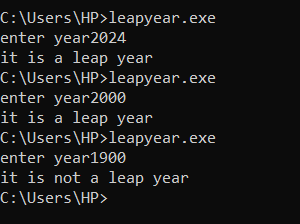


QUESTION 8:

Write a program that checks if a year is a leap year using the modulus operator.

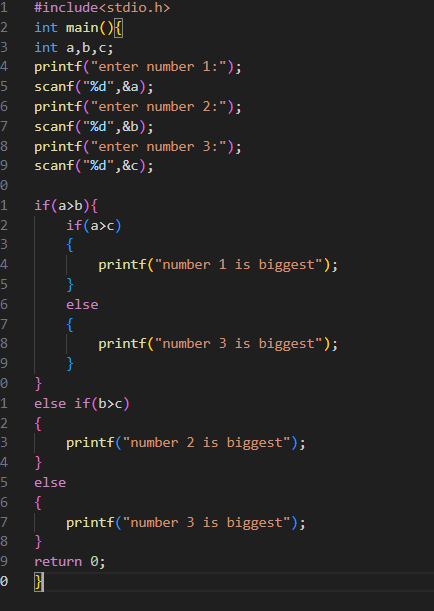


OUTPUT:

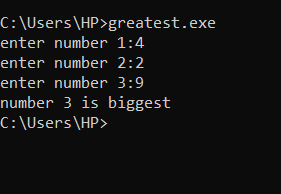


QUESTION 9:

Write a program to find the greatest of three numbers using nested if-else statements.

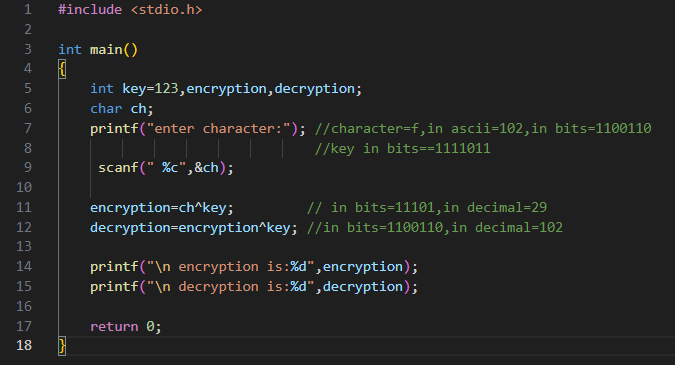


OUTPUT:

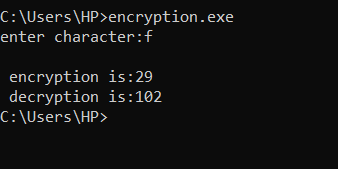


QUESTION 10:

Write a program that uses bitwise operators to perform encryption and decryption of a character.

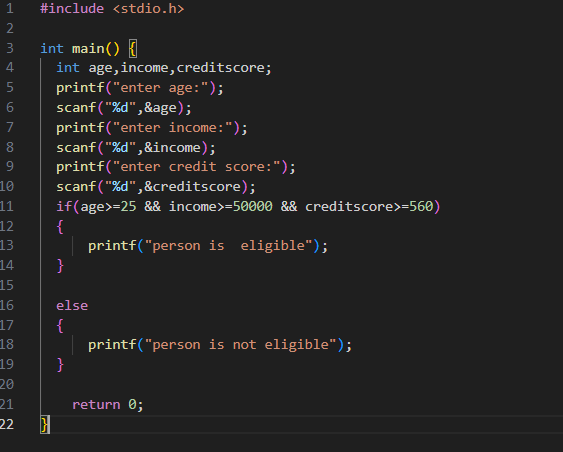


OUTPUT:

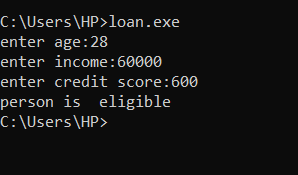


QUESTION 11:

Develop a program that uses logical operators to determine if a person is eligible for a loan based on age, income, and credit score.



OUTPUT:



QUESTION 12:

Create a program that calculates the final grade of a student based on multiple

criteria, including attendance, assignment scores, and exam results, using nested decision structures.

A screen shot of a computer program

Description automatically generated

A screen shot of a computer program

Description automatically generated

A screen shot of a computer program

Description automatically generated

OUTPUT:

