

1- Calculate (5 & 6) without using a program

Solution

4

2- Calculate (5 & 5) without using a program

Solution

5

3- Calculate (5 & 7) without using a program

Solution

5

4- Calculate (8 & 7) without using a program

Solution

0

5- Calculate (8 & 12) without using a program

Solution

8

6- Calculate (7 & 12) without using a program

Solution

4

7- Calculate (20 & 12) without using a program

Solution

4

8- Calculate (20 & 30) without using a program

Solution

20

9- Write a program that performs bitwise AND operation on two integers and prints the result.

اكتب برنامجًا ينفذ عملية AND على عددين صحيحين ويطبع النتيجة.

Output

```
Result of bitwise AND operation between 5 and 80: 0
```

Solution

```
// www.gammal.tech
#include <stdio.h>

int main() {
    int x = 5, y = 80;

    // Bitwise AND operation
    int result = x & y;

    // Output
    printf("Result of bitwise AND operation between %d and %d: %d\n", x, y, result);

    return 0;
}
```

10- Write a program that takes two integers as input from the user, performs bitwise AND operation on them, and prints the result.

اكتب برنامجًا يأخذ عددين صحيحين كمدخلات من المستخدم، ويقوم بإجراء عملية AND عليهما، ثم يطبع النتيجة.

Input

```
Enter two numbers: 451 356
```

Output

```
Result of bitwise AND operation between 451 and 356: 320
```

Solution

```

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// www.gammal.tech
#include <stdio.h>

int main() {
    int x, y;

    // Input: Get two numbers from the user
    printf("Enter two numbers: ");
    scanf("%d %d", &x, &y);

    // Bitwise AND operation
    int result = x & y;

    // Output: Display the result
    printf("Result of bitwise AND operation between %d and %d: %d\n", x, y, result);

    return 0;
}
```
