# C PROGRAMMING LAB
# (COM-111)

# ASSIGNMENT

**By**

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## Model Institute of Engineering &Technology (Autonomous)

(Permanently Affiliated to the University of Jammu, Accredited by NAAC with "A" Grade)

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# Write A C Program To Reverse A Given Array

## Code:-

```c
#include <stdio.h>

int main() {
    int num1, num2;

    // Input the two numbers
    printf("Enter the first number: ");
    scanf("%d", &num1);
    printf("Enter the second number: ");
    scanf("%d", &num2);

    // Swapping without using a third variable
    num1 = num1 + num2;
    num2 = num1 - num2;
    num1 = num1 - num2;

    // Displaying the swapped numbers
    printf("After swapping:\n");
    printf("First number: %d\n", num1);
    printf("Second number: %d\n", num2);

    return 0;
}
```

## Output:-

```
rs\" ; if ($?) { gcc tempCodeRunnerFile.c -o tempCodeRunnerFile }
Enter the first number: 5
Enter the second number: 6
After swapping:
First number: 6
Second number: 5
```

# Write The Program To Print All Three Digit Perfect Number.

## Code:-

```c
#include <stdio.h>

// Function to check if a number is a perfect number
int isPerfect(int num) {
    int sum = 0;
    for (int i = 1; i <= num / 2; i++) {
        if (num % i == 0) {
            sum += i;
        }
    }
    return (sum == num);
}

int main() {
    printf("Three-digit perfect numbers:\n");

    for (int i = 100; i <= 999; i++) {
        if (isPerfect(i)) {
            printf("%d\n", i);
        }
    }

    return 0;
}
```

## Output:-

```
PS C:\Users\Dell\OneDrive\Coding\C P
rs\" ; if ($?) { gcc tempCodeRunnerF
Three-digit perfect numbers:
496
```