



C,C++ PROGRAMING LAB FILE

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PROGRAMME NAME:	PAGE NUMBER:
HELLO WORLD	3
ADD TWO INTEGERS	4
AREA OF CIRCLE	5
ODD OR EVEN NUMBERS	7

PROGRAMME 1: Print Hello World Programme

SOURCE CODE:

```
#include <stdio.h>
int main() {
printf("Hello, World!");
return 0;
}
```

INPUT:

```
1  #include <stdio.h>
2  int main() {
3
4      printf("Hello, World!");
5      return 0;
6  }
7
```

Output

Hello, World!

=== Code Execution Successful ===

OUTPUT :

PROGRAMME 2: Add two numbers taking input as integers a and b.

SOURCE CODE:

```
#include <stdio.h>
int main() {

    int number1, number2, sum;

    printf("Enter two integers: ");
    scanf("%d %d", &number1, &number2);

    sum = number1 + number2;

    printf("%d + %d = %d", number1, number2, sum);
    return 0;
}
```

INPUT:

```
1  #include <stdio.h>
2  int main() {
3
4      int number1, number2, sum;
5
6      printf("Enter two integers: ");
7      scanf("%d %d", &number1, &number2);
8
9
10     sum = number1 + number2;
11
12     printf("%d + %d = %d", number1, number2, sum);
13     return 0;
```

OUTPUT:

Output

Enter two integers: 5

2

5 + 2 = 7

=== Code Execution Successful ===

PROGRAMME 3: Create a program to find area of circle

SOURCE CODE:

```
#include <stdio.h>
```

```
int main()
```

```
{
```

```
    float radius, area;
```

```
    float pi = 22.0 / 7.0;
```

```
    printf("Enter the radius of the circle: ");
```

```
    scanf("%f", &radius);
```

```
    area = pi * radius * radius;
```

```
    printf("The area of the circle is %f", area);
```

```
    return 0;
```

```
}
```

INPUT:

```
1 // Online C compiler to run C program online
2 #include <stdio.h>
3
4 int main()
5 {
6
7     float radius, area;
8
9     float pi = 22.0 / 7.0;
10
11     printf("Enter the radius of the circle: ");
12     scanf("%f", &radius);
13
14     area = pi * radius * radius;
15     printf("The area of the circle is %f", area);
16
17     return 0;
18 }
```

OUTPUT:

Output

```
Enter the radius of the circle: 11
The area of the circle is 380.285706
```

```
=== Code Execution Successful ===
```

PROGRAMME 4: Find the numbers as odd or even

SOURCE CODE:

```
#include <stdio.h>
int main() {
    int num;
    printf("Enter an integer: ");
    scanf("%d", &num);
    if(num % 2 == 0)
        printf("%d is even.", num);
    else
        printf("%d is odd.", num);

    return 0;
}
```

INPUT:

```
1  #include <stdio.h>
2  int main() {
3      int num;
4      printf("Enter an integer: ");
5      scanf("%d", &num);
6
7      if(num % 2 == 0)
8          printf("%d is even.", num);
9      else
10         printf("%d is odd.", num);
11
12     return 0;
13 }
```

OUTPUT:

Output

```
Enter an integer: 2  
2 is even.
```

```
=== Code Execution Successful ===
```


