

SUMANTH S

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LAB 2 Operator

1. Write a program to calculate the area of a rectangle using user input for length and width.

```
length = float(input("Enter the length of the rectangle:")) #taking length of a
rectangle from user
width = float(input("Enter the width of the rectangle:")) #taking width of a
rectangle from user

area = length*width #formula to find area
print(" The area of rectangle is:", area)# printing the area of rectangle
```

output

```
Enter the length of the rectangle:23.4
Enter the width of the rectangle:20.3
The area of rectangle is: 475.02
```

2. Create a program that converts temperatures from Fahrenheit to Celsius using the formula $(F - 32) * 5/9$.

```
fahrenheit = float(input("Enter temperature in Fahrenheit:"))# taking temperature value in
Fahrenheit
celsius = (fahrenheit - 32)*5/9 #formula to convert temperature from Fahrenheit to Celsius
print("Temperature in celsius :", celsius)# printing the Temperature in celsius
```

Output

```
Enter temperature in Fahrenheit:102
Temperature in celsius : 38.888888888888886
```

3.Create a program that checks if a number is both divisible by 2 and 3

```
def divisibility(number): # defining a function named as divisibility
    if number%2==0 and number % 3 ==0:# checking number is divisible by 2 and 3
        return True # return if condition is True
    else:
        return False # return if condition is True
number = int(input("Enter a number: ")) # taking a number from user
if divisibility(number): # calling function
    print(number, "is divisible by both 2 and 3")#displaying the statement, if
    condition is true
else:
    print(number, "is not divisible by both 2 and 3")#displaying the statement, if
    condition is false
```

Output

Enter a number: 99
99 is not divisible by both 2 and 3

Enter a number: 12
12 is divisible by both 2 and 3

4.Write a program that performs a bitwise AND operation on two numbers.

```
a=10
b=15
res = a & b
print("Bitwise AND of",a, "and ", b, "is", res)

# 10 = 1010
# 15 = 1111
-----
# &(*)=1010 = 10
```

Output

Bitwise AND of 10 and 15 is 10