

**Course  
&  
Test Series**

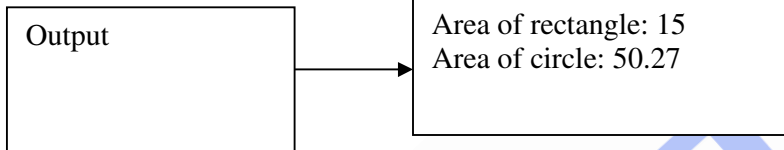
**Self-Made Assignment - Python**

**Function Arguments and Types in Python**

**Ques 1:- Calculate Area of Rectangle or Circle**

**Instructions**

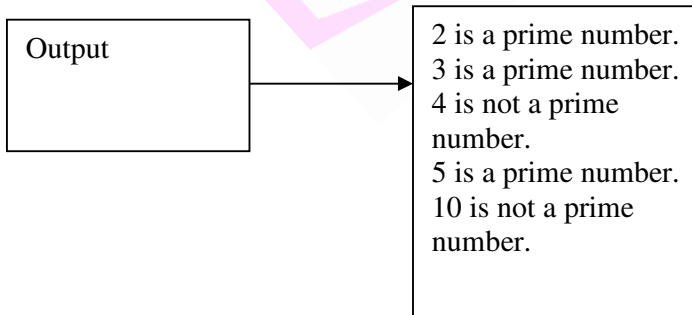
1. Define a function called `calculate_area` that takes a parameter `shape` and any number of keyword arguments (`**kwargs`).
2. If the `shape` is "rectangle", expect `length` and `width` as keyword arguments and calculate the area as `length * width`.
3. If the `shape` is "circle", expect `radius` as a keyword argument and calculate the area using the formula  $\pi * \text{radius}^2$ .
4. If the `shape` is not recognized, print an error message.
5. Call the function for a rectangle and a circle with appropriate arguments.
6. `calculate_area("rectangle", length=5, width=3)`
7. `calculate_area("circle", radius=4)`



**Ques 2:-Check Prime Number?**

**Instructions**

1. Define a function `check_prime(num)` that takes an integer `num` as input.
2. A prime number is a number greater than 1 that has no divisors other than 1 and itself.
3. Inside the function:
4. Return `False` if the number is less than or equal to 1.
5. Check divisibility from 2 up to the square root of the number.
6. If divisible by any number, return `False`.
7. Otherwise, return `True`.
8. Test the function with multiple values.



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