

CODE:

```
#RA2311004010332
#AMIT_CHAUHAN
#ECE_F

def calculate_salary(base_salary,rating):
    """
    Calculate the final salary of an employee after bonuses and deductions.

    Args:
    base_salary (float):The base salary of the employee.
    rating(str):The performance rating ("A","B","C").

    Returns:
    float:The final salary after applying bonuses and tax deductions .
    """

    #Determine bonus percentage based on rating
    if rating=="A":
        bonus_percent=0.20
    elif rating=="B":
        bonus_percent=0.10
    elif rating=="C":
        bonus_percent= 0.05
    else:
        bonus_percent=0.0 #No bonus for invalid rating

    #Calculate bonus
    bonus = base_salary*bonus_percent

    #Calculate gross salary (base+bonus)
    gross_salary = base_salary+bonus

    #Apply 12%tax deductions
    final_salary = gross_salary -(gross_salary*0.12)

    return final_salary

base_salary =5000 #Example base salary
rating = "A" # Example performance rating
final_salary = calculate_salary(base_salary,rating)
print(f"The final salary is :$ {final_salary:.2f}")
```

OUTPUT:

```
The final salary is :$ 5280.00
```

CODE:

```
#RA2311004010332
#AMIT_CHAUHAN
#ECE_F

def calculate_bill(total_amount):
    """
    calculate the final bill amount after applying a discount.
    Args:
    total_amount(float): The total purchase amount.
    Return:
    float: The final amount after applying the discount.
    """
    if total_amount>500:
        discount=0.20
    elif total_amount>100:
        discount=0.10
    else:
        discount=0.0
    final_amount=total_amount- (total_amount*discount)
    return final_amount
#EXAMPLE USAGE
total =250 #EXAMPLE TOTAL PURCHASE AMOUNT
final_amount=calculate_bill(total)
print(f"The final bill after discount is: {final_amount: 2f}")
```

OUTPUT:

```
The final bill after discount is: 225.000000
```
