

Program 1:

```
P = float(input("Enter the Principal amount: "))
```

```
R = float(input("Enter the Rate of interest: "))
```

```
T = float(input("Enter the Time (in years): "))
```

```
CI = P * (1 + R / 100) ** T - P
```

```
print("The Compound Interest is:", CI)
```

Program 2:

```
X = int(input("Enter the number of weeks: "))
```

```
Y = int(input("Enter the cost per week (in coins): "))
```

```
total_amount = X * Y
```

```
print("The total amount Chef has to pay is:", total_amount, "coins")
```

Program :3

```
radius_feet = float(input("Enter the radius of the field (in feet): "))
```

```
area_sqft = 3.14159 * radius_feet ** 2
```

```
area_acres = area_sqft / 43560
```

```
print("The area of the field is:", area_acres, "acres")
```

Program 4:

```
x1 = float(input("Enter Ram's X coordinate: "))  
y1 = float(input("Enter Ram's Y coordinate: "))  
x2 = float(input("Enter Sita's X coordinate: "))  
y2 = float(input("Enter Sita's Y coordinate: "))  
distance = ((x2 - x1)**2 + (y2 - y1)**2) ** 0.5  
print("The distance between Ram and Sita is:", distance)
```