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Python Assignment-4

Case study 1:

Online shopping Cart:

```
P1 = float(input("Enter the price of the first item:"))
P2 = float(input("Enter the price of the second item:"))
P3 = float(input("Enter the price of the third item:"))
total_price = P1+P2+P3
if total_price >500:
    dis = total_price * 0.10
    amt = total_price - dis
else:
    amt = total_price
print(F"total price: ₹{total_price:.2f}")
if total_price > 500:
    print(F"Discount Applied: ₹{dis:.2f}")
    print(F"Finalamount: ₹{amt:.2f}")
```

Output:-

```
Enter the price of first item :250
Enter the price of second item :180
Enter the price of third item :100

Total price : ₹530.00
Discount Applied : ₹53.00
Final amount : ₹477.00
```

Case study 8 :

Number Guessing Game

```
import random
key = random.randint(1,100)
print("Guess the number (between 1 and 100):")
while True:
    try:
        guess = int(input("Enter your guess: "))
        if guess < key:
            print("Too low! Try again.")
        elif guess > key:
            print("Too high! Try again.")
        else:
            print(f"Congrats! you guessed the correct number: {key}")
            break:
    except ValueError:
        print("please enter a valid integer.")
```

Output:

```
Guess the number (between 1 and 100):
Enter your guess: 50
Too low! Try again
Enter your guess: 78
Too high! Try again
Enter your guess: 66
Congratulations! you guessed the correct number: 68.
```

Case Study 10: Student Attendance Tracker

```
total_classes = int (input( "Enter total number of classes
                held : " ))

attendance = ( attended_classes / total_classes )* 100

if attendance >= 75 :

    print (f "Attendance : { attendance : .2f }% - present " )

else :

    print (f " Attendance : {attendance : .2f }% - Absent " )
```

Output :

```
Enter total number of class held : 50

Enter number of classes attended : 48

Attendance : 96.00 % - present
```

```
Enter total number of Class held : 50

Enter number of classes attended : 26

Attendance : 52.00 % - Absent
```

Case study 11 : Currency Convertor

```
usd = float(input("Enter amount in USD:"))

eur = usd * 0.85

gbp = usd * 0.75

inr = usd * 74.50

print(F"EUR: {eur:.2f}")

print(F"GIBP: {gbp:.2f}")

print(F"INR:₹ {inr:.2f}")
```

output

```
Enter amound in USD:50

EUR:42.50

GBP: 37.50

INR: 3725.00
```

```
Enter amount in USD: 72

EUR: 61.20

GBP: 54.00

INR: 53 64.00
```