**Read the number of sides the polygon has and display which polygon it is.**

polygon = int(input("Enter the number of sides the polygon has : "))

if polygon == 3:

    print("This polygon is a triangle")

elif polygon == 4:

    print("This polygon is a quadrilateral")

elif polygon == 5:

    print("This polygon is a pentagon")

elif polygon == 6:

    print("This polygon is a hexagon")

elif polygon == 7:

    print("This polygon is a septagon")

elif polygon == 8:

    print("This polygon is a octagon")

elif polygon == 9:

    print("This polygon is a nonagon")

elif polygon == 10:

    print("This polygon is a decagon")

elif polygon == 1 or 2 or 0:

    print("Not Applicable!")

**2. To perform the following operations according to the user’s choice using menu.**

print("1. Circle")

print("2. Square")

print("3. Rectangle")

number = int(input("Which shape do you want to calculate the area of: "))

if number == 1:

    radius = int(input("Enter the radius of the circle: "))

    area1 = 3.14 \* radius \* radius

    print("The area of circle is" , area1)

elif number == 2:

    side = int(input("Enter the side of the square: "))

    area2 = side \* side

    print("The area of the square is" , area2)

elif number == 3:

    b = int(input("Enter the breadth of rectangle: "))

    l = int(input("Enter the length of rectangle: "))

    area3 = b \* l

    print("The area of rectangle is" , area3)

**3. Calculate the total bill amount and also give the discount which is mentioned below.**

bill\_amt = float(input("Bill Amount: "))

def calc\_dis(bill\_amt):

    if bill\_amt > 2000:

        return bill\_amt\*(1-.15)

    if bill\_amt >= 1501 and bill\_amt <= 2000:

        return bill\_amt\*(1-.08)

    if bill\_amt >= 1000 and bill\_amt <= 1500:

        return  bill\_amt\*(1)

    return bill\_amt

print(f"Total bill amount = {calc\_dis(bill\_amt)}")

**4. To check whether a number is divisible by 5 and 11 or not.**

num = int(input("Enter a number: "))

if ((num % 5 == 0) and (num % 11 == 0)):

    print("{0} is divisible by 5 and 11".format(num))

else:

    print("{0} is not divisible by 5 and 11".format(num))

**5. To obtain temperature of 3 days and then display average temperature.**

d1\_temp = int(input("Enter the temperature of 1st Day: "))

d2\_temp = int(input("Enter the temperature of 2nd Day: "))

d3\_temp = int(input("Enter the temperature of 3rd Day: "))

avg\_temp = (d1\_temp + d2\_temp + d3\_temp) / 3

print("Average temperature of 3 days is {0}".format(avg\_temp))