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))
```