In [2]:
```python
#Question1
# Add  multiple methods  under in one class
class myPythonCalss:

    def Subfields():
        mylist=["Sub-fields in AI are:","Machine Learning","Neural Networks","Visio
        for temp in mylist:
            print(temp)

    def OddEven():
        givenNumber=int(input("Enter a number:"))
        if(givenNumber%2==0):
            print(givenNumber,"is even number")
        else:
            print(givenNumber,"is odd number")

    def ():
        getGender=input("Your Gender:")
        getAge=int(input("Your age:"))elegibility
        if(getGender=="male" and getAge>=21):
            print("ELIGIBLE")
        elif(getGender=="female" and getAge>=18):
            print("ELIGIBLE")
        else:
            print("NOT ELIGIBLE")

    def percentage():
        subject1=98
        subject2=87
        subject3=95
        subject4=95
        subject5=93
        total=(subject1+subject2+subject3+subject4+subject5)/500
        percent=total*100
        print("Subject1=",subject1)
        print("Subject2=",subject2)
        print("Subject3=",subject3)
        print("Subject4=",subject4)
        print("Subject5=",subject5)
        print("total:",total)
        print("percentage",percent)

    def triangle():

        getHeight=int(input("Height:"))
        getBreadth=int(input("Breadth:"))
        print("Area formula:","(Height*Breadth)/2")
        AreaFormula=(getHeight*getBreadth)/2
        AreaOfTriangle=AreaFormula
        print("Area of Triangle:",AreaOfTriangle)

        getHeight1=int(input("Height1:"))
        getHeight2=int(input("Height2:"))
        getBreadth1=int(input("Breadth:"))
        PerimeterFormula=getHeight1+getHeight2+getBreadth1
        PerimeterOfTriangle=PerimeterFormula

        print("Height:",getHeight)
        print("Breadth:",getBreadth)

        print("Height1:",getHeight1)
```

```
        print("Height2:",getHeight2)
        print("Breadth1:",getBreadth1)
        print("Perimeter formula:","Height1+Height2+Breadth")
        print("Perimeter formula:",PerimeterOfTriangle)
```

In [4]: `myPythonCalss.Subfields()`

```
Sub-fields in AI are:
Machine Learning
Neural Networks
Vision
Robotics
Speech Processing
Natural Language Processing
```

In [5]: `myPythonCalss.OddEven()`

```
Enter a number:20
20 is even number
```

In [6]: `myPythonCalss.elegibility()`

```
Your Gender:male
Your age:23
ELIGIBLE
```

In [7]: `myPythonCalss.percentage()`

```
Subject1= 98
Subject2= 87
Subject3= 95
Subject4= 95
Subject5= 93
total: 0.936
percentage 93.60000000000001
```

In [8]: `myPythonCalss.triangle()`

```
Height:32
Breadth:34
Area formula: (Height*Breadth)/2
Area of Triangle: 544.0
Height1:2
Height2:4
Breadth:4
Height: 32
Breadth: 34
Height1: 2
Height2: 4
Breadth1: 4
Perimeter formula: Height1+Height2+Breadth
Perimeter formula: 10
```

In [ ]: