```
In [7]:
         #Question1
         #Create a function, and list out the items in the list
         def Subfields():
             mylist=["Sub-fields in AI are:","Machine Learning","Neural Networks","Vision",'
              for temp in mylist:
                  print(temp)
 In [8]: Subfields()
         Sub-fields in AI are:
         Machine Learning
         Neural Networks
         Vision
         Robotics
         Speech Processing
         Natural Language Processing
 In [9]: #Question2
         #Create OddEven function
         def OddEven():
             givenNumber=int(input("Enter a number:"))
              if(givenNumber%2==0):
                  print(givenNumber,"is even number")
              else:
                  print(givenNumber, "is odd number")
In [10]:
         OddEven()
         Enter a number:52452
         52452 is even number
In [11]: #Question2
         #Create a function that tells elegibility of marriage for male and female according
         def elegibility():
             getGender=input("Your Gender:")
              getAge=int(input("Your age:"))
              if(getGender=="male" and getAge>=21):
                  print("ELIGIBLE")
              elif(getGender=="female" and getAge>=18):
                  print("ELIGIBLE")
             else:
                  print("NOT ELIGIBLE")
In [12]: elegibility()
         Your Gender:male
         Your age:20
         NOT ELIGIBLE
In [13]: #Question3
          #calculate the percentage of your 10th mark
         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)
In [14]: percentage()
         Subject1= 98
         Subject2= 87
         Subject3= 95
         Subject4= 95
         Subject5= 93
         total: 0.936
         percentage 93.60000000000001
In [5]: #Question4
         #print area and perimeter of triangle using class and functions
         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 [6]: 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 [ ]:
```