In [ ]:

```
#Create Function()
```

In [48]:

```
def Subfields():
    print("Sub-fields in AI are:")
    a=str("Machine Leraning")
    print(a)
    message=a
    b=str("Neural Networks")
    print(b)
    message=b
    c=str("Vision")
    print(c)
    message=c
    d=str("Robotics")
    print(d)
    message=d
    e=str("Speech Processing")
    print(e)
    message=e
    f=str("Natural Lanuage Processing")
    return message
AIFields=Subfields()
```

```
Sub-fields in AI are:
Machine Leraning
Neural Networks
Vision
Robotics
Speech Processing
```

In [ ]:

```
#Create Function() for 1st question tried code in 2 ways
```

In [46]:

```
def Subfields():
    print("Sub-fields in AI are:")
    Tuple1=("Machine Leraning", "Neural Networks","Vision", "Robotics","Speech Processi
ng","Natural Lanuage Processing")
    a,b,c,d,e,f=Tuple1
    print(a)
    message=a
    print(b)
    message=b
    print(c)
    message=c
    print(d)
    message=d
    print(e)
    message=e
    return message
AIFields=Subfields()
```

```
Sub-fields in AI are:
Machine Leraning
Neural Networks
Vision
Robotics
Speech Processing
```

In [ ]:

```
#Create function that checks whether the given number is odd or even
```

In [27]:

```
def oddeven():
    num=int(input("Enter the number:"))
    if((num%2)==0):
        a=str("Even Number")
        print(num,"is",a)
        message=a
    else:
        b=str("Odd Number")
        print(num,"is",b)
        message=b
    return message
cate=oddeven()
```

```
Enter the number:4
4 is Even Number
```

In [ ]:

```
#Create function
Male - 21
Female -18
```

In [47]:

```
def Elegible():
    Gender=str(input("Your Gender:"))
    age=int(input("Your age:"))
    if((Gender=='Male') and (age<21)):
            print("Not Elegible")
            message="Not Elegible"
    else:
        print("Elegible")
        message="Elegible"
        return message
Gen=Elegible()
```

```
Your Gender:Male
Your age:17
Not Elegible
```

In [ ]:

```
#calculate the percentage of 10th Marks
```

In [23]:

```
def percentage():
    a=int(input("Subject1="))
    b=int(input("Subject2="))
    c=int(input("Subject3="))
    d=int(input("Subject4="))
    e=int(input("Subject5="))
    Marks=[a,b,c,d,e]
    print("Total:", sum(Marks))
    print("Percentage:",sum(Marks)/500.0*100)
    message=Marks
    return message
Mak=percentage()
```

```
Subject1=98
Subject2=87
Subject3=95
Subject4=95
Subject5=93
Total: 468
Percentage: 93.60000000000001
```

In [17]:

```
#print area and perimeter of triangle using function
```

In [42]:

```
def triangle():
    a=int(input("Height:"))
    b=int(input("Breadth:"))
    print("Area formula:(Height*Breadth)/2")
    print("Area of Triangle:", (a*b)/2)
    message="Area of Triangle"
    num1=int(input("Height1:"))
    num2=int(input("Height2:"))
    num3=int(input("Breadth:"))
    c=[num1,num2,num3]
    print("Perimeter formula:Height1+Height2+Breadth")
    print("Perimeter of Triangle:",sum(c))
    return message
Mate=triangle()
```

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

In [ ]:

```

```