**Q1**

In [1]:

**class** **Triangle**:

a=0

b=0

c=0

**def** create\_triangle(self):

self.a=int(input("Enter The First Side: "))

self.b=int(input("Enter The Second Side: "))

self.c = int(input("Enter The Third Side: "))

**def** printside(self):

print(self.a)

print(self.b)

print(self.c)

tr=Triangle()

tr.create\_triangle()

print("The Sides Of Triangle are")

tr.printside()

Enter The First Side: 35

Enter The Second Side: 25

Enter The Third Side: 12

The Sides Of Triangle are

35

25

12

**Q2**

In [2]:

**class** **String**:

a=""

**def** gets(self):

self.a=input("Enter The String: ")

**return** (self.a)

str=String()

print("The input string is: " ,str.gets())

Enter The String: fdasve

The input string is: fdasve

**Q3**

In [3]:

**class** **Rectangle**:

l=0.0

w=0.0

**def** rect(self):

self.l=int(input("Enter The length: "))

self.w=int(input("Enter The width: "))

**return** (2\*(self.l+self.w))

r1=Rectangle()

print("The Perimeter of Rectangle is: ",r1.rect())

Enter The length: 45

Enter The width: 23

The Perimeter of Rectangle is: 136

**Q4**

In [4]:

**class** **Circle**:

rad=0.0

**def** \_\_init\_\_(self):

self.rad=float(input("Enter The Radius: "))

**def** areac(self):

**return** (3.14\*self.rad\*self.rad)

**def** perr(self):

**return** (2\*3.14\*self.rad)

c1=Circle()

print("The Area Of the circle is: " ,c1.areac())

print("The Perimeter of the rectangle is: " , c1.perr())

Enter The Radius: 20

The Area Of the circle is: 1256.0

The Perimeter of the rectangle is: 125.60000000000001

**Q6**

In [6]:

**class** **Temperature**:

f=0.0

c=0.0

**def** convf(self):

self.f=int(input("Enter the Temp in F:"))

**return** ((self.f-32)/1.8)

**def** convc(self):

self.c=int(input("Enter The Temp in c:"))

**return** ((self.c\*1.8)+32)

te=Temperature()

print("The Conversion of F to C is:",te.convf())

print("The Conversion of C to F is:", te.convc())

Enter the Temp in F:70

The Conversion of F to C is: 21.11111111111111

Enter The Temp in c:42

The Conversion of C to F is: 107.60000000000001

**Q7**

In [1]:

**class** **student**():

name=""

marks=0

age=0

Roll\_No=""

**def** display(self):

**return** (self.name,self.marks,self.Roll\_No)

**def** setage(self):

self.age=int(input("Enter The Age of Student"))

**return** (self.age)

**def** setmarks(self):

self.marks=int(input("Enter The Marks Of Student"))

**return** (self.marks)

stu=student()

stu.name="Ayaam"

stu.marks=200

stu.Roll\_No="2K18CSUN01012"

print(stu.display())

print("The age of Student is", stu.setage())

print("The Update Marks Of Student is", stu.setmarks())

('Ayaam', 200, '2K18CSUN01012')

Enter The Age of Student20

The age of Student is 20

Enter The Marks Of Student180

The Update Marks Of Student is 180

**Q8**

In [10]:

**class** **time**():

hour = 0

hour1 = 0

min = 0

min1 = 0

totalhr=0

totalmin=0

**def** addTime(self):

self.hour = int(input("Enter The Hour "))

self.min = int(input("Enter the minute"))

self.hour1 = int(input("Enter Another hour"))

self.min1 = int(input("Enter Another Minute"))

**def** displayTime(self):

self.totalhr=self.hour + self.hour1

self.totalmin=self.min + self.min1

print(self.totalhr,"Hour and ",self.totalmin,"min")

**def** displaymin(self):

**return** (60\*self.totalhr+self.totalmin)

b1 = time()

b1.addTime()

print("The Total Time is")

b1.displayTime()

print("The Total Minute is",b1.displaymin())

Enter The Hour 5

Enter the minute34

Enter Another hour7

Enter Another Minute23

The Total Time is

12 Hour and 57 min

The Total Minute is 777

**Q9**

In [13]:

**class** **reversestring**:

a=""

**def** rev\_fun(self):

self.a=input("Enter The String ")

**return** self.a[::-1]

rev=reversestring()

print(rev.rev\_fun())

Enter The String Hi

iH