In [1]:
```
try:
    number=eval(input("enter a value"))
    square=number*number
    print("the square of{} is{}".format(number,square))
except Exception as e:
    print(e)
```

```
enter a value12
the square of12 is144
```

In [2]:
```
try:
    x=eval(input("enter a number:"))
    print(x,2*x,3*x,4*x,5*x,sep='---')
except Exception as e:
    print(e)
```

```
enter a number:55
55---110---165---220---275
```

In [3]:
```
try:
    weight_in_kilograms=float(input("enter a weight in kilograms"))
    weight_in_pounds=weight_in_kilograms*2
    print(f"{weight_in_kilograms} kilograms is equal to {weight_in_pounds} pounds.")
except Exception as e:
    print(e)
```

```
enter a weight in kilograms55
55.0 kilograms is equal to 110.0 pounds.
```

In [4]:
```
try:
    meal_price=float(input("enter the price of the meal:"))
    tip_percentage=float(input("enter the tip percentage you want to leave:"))
    total_bill=meal_price/tip_percentage*100
    p=meal_price+total_bill
    print("bill of meal:",meal_price,"total_bill:",p)
except Exception as e:
    print(e)
```

```
enter the price of the meal:500
enter the tip percentage you want to leave:50
bill of meal: 500.0 total_bill: 1500.0
```

In [5]:
```
try:
    num1=eval(input("enter the first num"))
    num2=eval(input("enter the second num"))
    num3=eval(input("enter the third num"))
    total=num1+num2+num3
    average=total/3
    print("total:",total)
    print("average:",average)
except Exception as e:
    print(e)
```

```
enter the first num55
enter the second num66
enter the third num88
total: 209
average: 69.66666666666667
```

In [6]:
```
try:
    basic_salary=eval(input("enter the basic_salary:"))
    dearness_allowance=0.4*basic_salary
    house_rent_allowance=0.2*basic_salary
    gross_salary=basic_salary+dearness_allowance+house_rent_allowance
    print("gross_salary:",gross_salary)
except Exception as e:
    print(e)
```

```
enter the basic_salary:100000
gross_salary: 160000.0
```

In [7]:
```
try:
    distance_in_km=float(input("enter the distance between two citizen in km:"))
    meters=distance_in_km*1000
    feet=distance_in_km*4820.52
    inches=distance_in_km*2852.2
    centimeters=distance_in_km*20000
    print("distance in meters of{} is {}:",format(meters))
    print("distance in feet of{} is {}:",format(feet))
    print("distance in inches of{} is {}:",format(inches))
    print("distance in centimeters of{} is {}:",format(centimeters))
except Exception as e:
    print(e)
```

```
enter the distance between two citizen in km:20
distance in meters of{} is {}: 20000.0
distance in feet of{} is {}: 96410.40000000001
distance in inches of{} is {}: 57044.0
distance in centimeters of{} is {}: 400000.0
```

In [8]:
```
try:
    m1=eval(input("enter the students marks in 1st subjests:"))
    m2=eval(input("enter the students marks in 2nd subjests:"))
    m3=eval(input("enter the students marks in 3rd subjests:"))
    m4=eval(input("enter the students marks in 4th subjests:"))
    m5=eval(input("enter the students marks in 5th subjests:"))
    total_marks=m1+m2+m3+m4+m5
    percentage_marks=total_marks/100
    print("percentage_marks of all subjects {} is {}:".format(percentage_marks,total_marks/100))
    aggregate_marks=total_marks/100
    print("aggregate_marks of all subjects {} is {}:".format(aggregate_marks,total_marks/100))
    if m1>=90:
        print("the highest marks 1st subject marks {} is {}:".format(m1,m2,m3,m4,m5,percentage_marks,aggregate_marks))
    if m2>=80:
        print("the highest marks 2nd subject marks {} is {}:".format(m1,m2,m3,m4,m5,percentage_marks,aggregate_marks))
    if m3>=70:
        print("the highest marks 3rd subject marks {} is {}:".format(m1,m2,m3,m4,m5,percentage_marks,aggregate_marks))
    if m4>=60:
        print("the highest marks 4th subject marks {} is {}:".format(m1,m2,m3,m4,m5,percentage_marks,aggregate_marks))
    if m5>=50:
        print("the highest marks 5th subject marks {} is {}:".format(m1,m2,m3,m4,m5,percentage_marks,aggregate_marks))
    else:
        print('fail')
except Exception as e:
    print(e)
```

```
enter the students marks in 1st subjests:98
enter the students marks in 2nd subjests:89
enter the students marks in 3rd subjests:78
enter the students marks in 4th subjests:64
enter the students marks in 5th subjests:55
percentage_marks of all subjects 3.84 is 3.84:
aggregate_marks of all subjects 3.84 is 3.84:
the highest marks 1st subject marks 98 is 89:
the highest marks 2nd subject marks 98 is 89:
the highest marks 3rd subject marks 98 is 89:
the highest marks 4th subject marks 98 is 89:
the highest marks 5th subject marks 98 is 89:
```

In [9]:
```
try:
    Fahrenheit=eval(input("enter the Temperature in Fahrenheit degrees:"))
    celsius=(fahrenheit-32)*5/9
    print("Fahrenheit of {} is {} degree celsius:",format(celsius))
except Exception as e:
    print(e)
```

```
enter the Temperature in Fahrenheit degrees:45
Fahrenheit of {} is {} degree celsius: 7.222222222222222
```

In [10]:
```
import math
try:
    length=eval(input("enter the length of rectangle:"))
    breadth=eval(input("enter the breadth of rectangle:"))
    radius=eval(input("enter the radius of circle:"))
    area_rectangle=length*breadth
    area_perimeter=2*(length+breadth)
    area_circle=math.pi*radius**2
    area_circumference=2*(math.pi*radius)
    print("area_rectangle of {} is {}:",format(area_rectangle))
    print("area_perimeter of {} is {}:",format(area_perimeter))
    print("area_circle of {} is {}:",format(area_circle))
    print("area_circumference of {} is {}:",format(area_circumference))
except Exception as e:
    print(e)
```

```
enter the length of rectangle:6
enter the breadth of rectangle:6
enter the radius of circle:5
area_rectangle of {} is {}: 36
area_perimeter of {} is {}: 24
area_circle of {} is {}: 78.53981633974483
area_circumference of {} is {}: 16.283185307179586
```

In [11]:
```
try:
    C=int(input("enter the value of C:"))
    D=int(input("enter the value of D"))
    A=C
    C=D
    D=A
    print("the value of C is{}:",format(C))
    print("the value of D is{}:",format(D))
except Exception as e:
    print(e)
```

```
enter the value of C:60
enter the value of D100
the value of C is{}: 100
the value of D is{}: 60
```

In [13]:
```
try:
    percentage_total_literate=48
    percentage_literate_men=35
    total_population=80000
    total_men=(percentage_literate_men/100)*total_population
    total_women=total_population-total_men
    literate_men=(percentage_literate_men/100)*total_population
    illiterate_men=total_men-literate_men
    illiterate_women=total_women-(percentage_total_literate/100)*total_population
    print("total illiterate men is:",format(illiterate_men))
    print("total illiterate women is:",format(illiterate_women))
except Exception as e:
    print(e)
```

```
total illiterate men is: 0.0
total illiterate women is: 13600.0
```

In [14]:
```
try:
    number = input("Enter a four-digit number:")
    if len(number) == 4 and number.isdigit():
        number = int(number)
        first_digit = number // 1000
        last_digit = number % 10
        sum_of_digits = first_digit + last_digit
        print(f"The sum of the first and last digits is: {sum_of_digits}")
    else:
        print("Please enter a valid four-digit number.")
except Exception as e:
    print(e)
```

```
Enter a four-digit number:1346
The sum of the first and last digits is: 7
```

In [15]:
```
try:
    number=input("enter a five_digits:")
    if len(number) == 5 and number.isdigit():
        number = int(number)
        reversed_number=0
        last_digit=number % 10
        reversed_number=reversed_number*10+last_digit
        number=number // 10
        second_digit=number % 10
        reversed_number=reversed_number*10+second_digit
        number=number // 10
        third_digit=number % 10
        reversed_number=reversed_number*10+third_digit
        number=number // 10
        forth_digit=number % 10
        reversed_number=reversed_number*10+forth_digit
        number=number // 10
        fifth_digit=number % 10
        reversed_number=reversed_number*10+fifth_digit
        number=number // 10
        print("enter the reversed number is {}:".format(reversed_number))
    else:
        print("Please enter a valid four-digit number.")
except Exception as e:
    print(e)
```

```
enter a five_digits:86889
enter the reversed number is 98868:
```

In [18]:
```
try:
    amount_in_hundred=eval(input("enter the amount to withdrawn in hundred:"))
    num_100=0
    num_50=0
    num_10=0
    if amount_in_hundred<0:
        if amount_in_hundred>=1:
            num_100=amount_in_hundred
            amount_in_hundred=0
    elif amount_in_hundred>=0.5:
        num_50=1
        amount_in_hundred=0.5
    else:
        num_10=1
        amount_in_hundred=0.1
    print("num of 100 is {}:",format(num_100))
    print("num of 50 is {}:",format(num_50))
    print("num of 10 is {}:",format(num_10))
except Exception as e:
    print(e)
```

```
enter the amount to withdrawn in hundred:500
num of 100 is {}: 0
num of 50 is {}: 1
num of 10 is {}: 0
```

In [ ]:
```
```