Enter the basic Salary of Ramesh100000 The total salary of Ramesh is 160000.0 which consists of Dear Allowance 4000 0.0, house rent allowance is 20000.0

```
In [34]: # 2. The distance between two cities (in km.) is input through the keyboard.
# Write a program to convert and print this distance in meters, feet, inches a

def Dist():
    try:
        City_1=eval(input("Enter the distance between two Cities in km"))
        meters= City_1/1000
        feet =meters/0.3048
        inches= feet*12
        cm=inches/2.54
        print(f"The distance between cities in Km is {City_1}, in meters is {meexcept Exception as e:
        print(e)
Dist()
```

Enter the distance between two Cities in km125
The distance between cities in Km is 125, in meters is 0.125, in feet is 0.41
01049868766404,in inches is 4.921259842519684, in centimeter is 1.93750387500
77498

```
In [36]: # 3. If the marks obtained by a student in five different subjects are input th
         # find out the aggregate marks and percentage marks obtained by the student.
         # Assume that the maximum marks that can be obtained by a student in each subje
         def Marks(m1, m2, m3, m4, m5):
             try:
                 agg=(m1+m2+m3+m4+m5)/5
                 per=agg
                 print(f"The aggregate score is {agg} and the total percentage is {per}'
             except Exception as e:
                 print(e)
         Marks(eval(input("Enter the marks of subject m1: ")), eval(input("Enter the mark
         Enter the marks of subject m1: 45
         Enter the marks of subject m2: 45
         Enter the marks of subject m3: 45
         Enter the marks of subject m4: 54
         Enter the marks of subject m5: 54
         The aggregate score is 48.6 and the total percentage is 48.6
In [37]:
         # 4. Temperature of a city in Fahrenheit degrees is input through the keyboard.
         # Write a program to convert this temperature into Centigrade degrees.
         def city_temp():
             try:
                 F=eval(input("Enter the Temperature of the city in Fahrenheit"))
                 C=(F-32)/1.8
                 print(f"The Temperature of the city in Celcious is {C} ")
             except Exception as e:
                 print(e)
         city_temp()
```

```
Assingnment 3-1.1 - Jupyter Notebook
In [38]: # 5. The length & breadth of a rectangle and radius of a circle are input throu
         # Write a program to calculate the area & perimeter of the rectangle,
         # and the area & circumference of the circle.
         import time
         def Gemetry():
             try:
                 length=eval(input("Enter the length of the reactangle: "))
                 time.sleep(1)
                 breadth=eval(input("Enter the breadth of the reactangle: "))
                 time.sleep(1)
                 radius = eval(input("Enter the radius of the cirle: "))
                 time.sleep(1)
                 react= length*breadth
                 cir=2*3.14*radius
                 time.sleep(2)
                 print(f"The area of a rectangle is {react} and the area of the circle i
             except Exception as e:
                 print(e)
         Gemetry()
         Enter the length of the reactangle: 56
         Enter the breadth of the reactangle: 65
         Enter the radius of the cirle: 5
         The area of a rectangle is 3640 and the area of the circle is 31.400000000000
         002
In [39]: # 6. Two numbers are input through the keyboard into two Locations C and D.
         # Write a program to interchange the contents of C and D.
         import time
         def interchange():
```

```
try:
        C= eval(input("Enter the value of C: "))
        D= eval(input("Enter the value of D: "))
        time.sleep(1)
        print(f"The value of C is {C} and the value of D is {D}")
        X=C
        C=D
        D=X
        time.sleep(2)
        print(f"The value of C is {C} and the value of D is {D} after switching
    except Exception as e:
        print(e)
interchange()
```

```
Enter the value of C: 56
Enter the value of D: 58
The value of C is 56 and the value of D is 58
The value of C is 58 and the value of D is 56 after switching
```

```
# 7. If a five-digit number is input through the keyboard, write a program to
reverse the number.
try:
    n1 = eval(input("Enter a five-digit number: "))
```

```
if 10000 <= n1 <= 99999:
        R=(n1\%10)
        t1=R*1000
        Q=n1/10
        R1=R%10
        t2=R1*100
        Q1 = Q/10
        R2=R1%10
        t3=R2*10
        Q2=Q1%10
        t4=Q2
        final=t1+t2+t3+t4
        print(f"The number which is entered is {n1} and the reversed number is
{final} ")
except Exception as e:
        print(e)
```

```
# 7. If a five-digit number is input through the keyboard, write a program to r
In [15]:
             n1 = eval(input("Enter a five-digit number: "))
             if 10000 <= n1 <= 99999:
                 Q=n1//10
                 R=(n1\%10)
                 t1=R*10000
                 print(t1)
                 01=0//10
                 R1=Q%10
                 t2=R1*1000
                 print(t2)
                 Q2=Q1//10
                 R2=Q1%10
                 t3=R2*100
                 print(t3)
                 R3=Q2%10
                 Q3=Q2//10
                 t4=R3*10
                 print(t4)
                 R4=Q3%10
                 Q4=Q3//10
                 t5=R4*10
                 final=t1+t2+t3+t4+R4
                 print(f"The number which is entered is {n1} and the reversed number is
             else:
                 print("The number is not in our expected range")
         except Exception as e:
                 print(e)
         Enter a five-digit number: 12345
         50000
         4000
         300
         20
         The number which is entered is 12345 and the reversed number is 54321
```

```
In [41]: # 8. If a four-digit number is input through the keyboard,
    # write a program to obtain the sum of the first and last digit of this number
try:
    nu2 = int(input("Enter a four-digit number: "))
    if 1000 <= nu2 <= 9999:
        first_digit = nu2 // 1000
        last_digit = nu2 % 10
        sum_first_last = first_digit + last_digit
        print("Sum of first and last digit:", sum_first_last)
    else:
        print("Please enter a valid four-digit number.")
except Exception as e:
    print(e)</pre>
```

Enter a four-digit number: 1245 Sum of first and last digit: 6

```
In [42]: # 9. In a town, the percentage of men is 52.
         # The percentage of total literacy is 48.
         # If total percentage of literate men is 35 of the total population,
         # write a program to find the total number of illiterate men and women if
         # the population of the town is 80,000.
         try:
             total population = 80000
             percentage men = 52
             percentage_total_literacy = 48
             percentage literate men = 35
             men population = (percentage men / 100) * total population
             literate_men = (percentage_literate_men / 100) * total_population
             literate_women = (percentage_total_literacy / 100) * total_population - lit
             illiterate men = men population - literate men
             illiterate women = total population - literate men - literate women
             print("Total number of illiterate men:", int(illiterate_men))
             print("Total number of illiterate women:", int(illiterate_women))
         except Exception as e:
                 print(e)
```

Total number of illiterate men: 13600 Total number of illiterate women: 41600

```
In [43]: # 10. A cashier has currency notes of denominations 10, 50 and 100.
# If the amount to be withdrawn is input through the keyboard in hundreds,
# find the total number of currency notes of each denomination the cashier wil
# to give to the withdrawer.

# try:
# amount_in_hundreds = eval(input("Enter the amount to

# num_100s = amount_in_hundreds
# num_50s = (amount_in_hundreds % 10) * 5
# num_10s = (amount_in_hundreds % 5) * 10

# print("Number of 100s:", num_100s)
# print("Number of 50s:", num_50s)
# print("Number of 10s:", num_10s)
# except Exception as e:
# print(e)
```

Enter the amount to be withdrawn in hundreds: 500

Number of 100s: 500 Number of 50s: 0 Number of 10s: 0

```
In [ ]:
```