1) Apply 55 discount on total cost of n books

Code:

n = int(input("Number of books : "))

cost = int(input("cost of one book : "))

tot = n\*cost

discount = (5/100)\*tot

final = tot - discount

print(final)

Output:

Number of books : 4

cost of one book : 100

380.0

2) Arithmetic Calculation:

a = int(input("Enter number : "))

b = int(input("Enter number : '"))

print("Addition:")

print(a+b )

print("Subtraction")

print(a-b )

print("Multiplication")

print(a\*b)

print("Division")

print(a/b)

print("Modulo division")

print(a%b)

print("Exponent")

print(a\*\*b)

print("Floor Division")

print(a//b)

Output:

Enter number : 4

Enter number : '4

Addition:

8

Subtraction

0

Multiplication

16

Division

1.0

Modulo division

0

Exponent

256

Floor Division

1

3) Fahrenheit to Celsius

Code:

f = int(input("Enter degree in fahrenheit :"))

c = ((f - 32)\*5)/9

print(c,"Degree celsius")

output:

Enter degree in fahrenheit :22

-5.555555555555555 Degree Celsius

4) Leap year or not:

year = int(input("Enter the Year : "))

if (year%4==0):

print(year,"is Leap year")

elif(year%100==0):

print(year,"is Leap year")

elif(year%400==0):

print(year,"is Leap year")

else:

print(year,"is not a leap year")

output:

Enter the Year : 2022

2022 is not a leap year

5) Prime Number or Not:

num = int(input("Enter a number:"))

if num>1:

for i in range(2,int(num/2)+1):

if(num%2)==0:

print(num,"is not a prime number")

else:

print(num,"is a prime number")

break

else:

print("It is not a prime number")

output:

Enter a Number:2

2 is not a prime number

6) Simple intrest:

p = int(input("Enter principal amount:"))

t = int(input("\nEnter time period:"))

r = int(input("\nEnter the rate of intrest:"))

si = (p\*t\*r)/100

print("simple intrest is:",si)

output:

Enter principal amount:2

Enter time period:2

Enter the rate of intrest:2

simple intrest is: 0.08

7) cost of apples:

code:

cost = 50

apples = int(input("Enter the number of apples:"))

tot = cost\*apples

print("\nTotal cost of apples",tot)

output:

Enter the number of apples:2

Total cost of apples 100