AssignExtra1-Input,TypeConversion

Q1 .Input temperature in fahrenheit in print in celcious

In [1]:
```
Fahrenheit= float(input("Enter temperature in fahrenheit: "))
Celsius= ((Fahrenheit - 32) //1.8)
print(" Convert Fahrenheit in to Celsius : ",Celsius)
```

```
Enter temperature in fahrenheit: 45
 Convert Fahrenheit in to Celsius :  7.0
```

Q2 .WAP to input a number and print square and qube

In [2]:
```
n=int(input("enter a number :- "))
sq=n*n
cb=n*n*n
print("Square of",n ,"is =",sq)
print("Qube of",n ,"is =",cb)
```

```
enter a number :- 5
Square of 5 is = 25
Qube of 5 is = 125
```

Q3. WAO to input n,m and print the result of following n^2+m^2

In [3]:
```
n=int(input("enter a 1st number :- "))
m=int(input("enter a 2nd number :- "))
result=((n*n)+(m*m))
print("result is = ",result)
```

```
enter a 1st number :- 3
enter a 2nd number :- 4
result is =  25
```

Q4. WAP to input M and n and print result m^n(use ** and pow)

In [4]:
```
import math
n=int(input("enter a 1st number :- "))
m=int(input("enter a 2nd number :- "))
result1=(m**n)
result2=pow(m,n)
print("result with using ** operator is : ",result1)
print("result with using pow() is : ",result2)
```

```
enter a 1st number :- 3
enter a 2nd number :- 2
```

```
result with using ** operator is :  8
result with using pow() is :  8
```

Q5. intrest rate calculator

In [6]:

```
principal=float(input("enter Principal Amount :"))
time=float(input("enter time duration :"))
rate=float(input("enter intrest rate:"))
simpleint_rate=(principal*time*rate)/100
print("intraste rate calculated:",simpleint_rate)
```

```
enter Principal Amount :500
enter time duration :1
enter intrest rate:2
intraste rate calculated: 10.0
```

Q6.Input Principle rate ,time and print compound intrest Amount

In [9]:

```
principle=(float(input("enter Principal Amount:")))
rate=(float(input("enter rate:")))
time=(float(input("enter time:")))
Amount = principle * (pow((1 + rate / 100), time))
CI = Amount - principle
print("Compound interest is", CI)
```

```
enter Principal Amount:50000
enter rate:3.50
enter time:3
Compound interest is 5435.893749999988
```

Q7.WAP to print sum of first n natural numbers

In [12]:

```
n=10
if n<0:
    print("Please enter a positive number")
else:
    sum=0
    while(n>0):
        sum +=n
        n -=1
    print("Sum of first n natural  number is:",sum)
```

```
Sum of first n natural  number is: 55
```

Q8. WAP to input 2 numbers and swap them

In [18]:

```
n1=int(input("enter a 1st number: "))
n2=int(input("enter a 2nd number: "))
print("------------------------------------")
print("1st way of Swapping with using temp variable")
print("print number before swapping :",n1,n2)
temp=n1
n1=n2
```

```
n2=temp
print("print number after swapping :",n1,n2)
print("-----------------------------------")
print("2nd way of Swapping using pythonic way")
n1,n2=n2,n1
print("print number after swapping :",n1,n2)
```

```
enter a 1st number: 3
enter a 2nd number: 2
-----------------------------------
1st way of Swapping with using temp variable
print number before swapping : 3 2
print number after swapping : 2 3
-----------------------------------
2nd way of Swapping using pythonic way
print number after swapping : 3 2
```

Q9. WAP to print ascii value of all white space charachters present in python

In [ ]:

```
print("ASCII value of space '' is =",ord(' '))
print("ASCII value of space '\\t' is =",ord('\t'))
```

Q10. input a single charachter and print its Ascii values

In [4]:

```
c=input("enter a charachter: ")
print("ASCII value of single charachter is =",ord(c))
```

```
enter a charachter: a
ASCII value of single charachter is = 97
```

Q 11.WaP to take area of a circle and gives back the radius and circumference

In [8]:

```
import math
a=float(input("enter area of circle is ="))
pi=3.14
r=math.sqrt(pi*a)
print("radious of circle is =",r)
c=2*pi*r
print("circumference of circle is =",c)
```

```
enter area of circle is =35
radious of circle is = 10.483320084782301
circumference of circle is = 65.83525013243285
```

Q12 WAP to input marks in 5 subjects out of 100 and print percentage

In [10]:

```
s1=float(input("enter 1st subject marks"))
s2=float(input("enter 2nd subject marks"))
s3=float(input("enter 3rd subject marks"))
```

```
s4=float(input("enter 4th subject marks"))
s5=float(input("enter 5th subject marks"))
sum=s1+s2+s3+s4+s5
print("Sum of 5 subject marks = ",sum)
per=(sum/500)*100
print("percentage =",per)
```

```
enter 1st subject marks98
enter 2nd subject marks99
enter 3rd subject marks89
enter 4th subject marks91
enter 5th subject marks93
Sum of 5 subject marks =  470.0
percentage = 94.0
```