Find the compound interest for the given p,n,r (formula : p(1+n

```
def compound_interest(principle, rate, time):
    CI = principle * (pow((1 + rate / 100), time))
    print("Compound interest is", CI)
p=int(input("enter p value: "))
n=int(input("enter n value: "))
r=float(input("enter r value: "))
compound_interest(p, r, n)
```

```
enter p value: 1200
enter n value: 2
enter r value: 5.4
Compound interest is 1333.0992
```

Convert centegrade to farenheit (f= 9/5*c+32)

```
celsius = float(input("Enter temperature in celsius: "))
fahrenheit = (celsius * 9/5) + 32
print('%.2f Celsius is: %0.2f Fahrenheit' %(celsius, fahrenheit))
```

```
Enter temperature in celsius: 37
37.00 Celsius is: 98.60 Fahrenheit
```

Find the greater of two nos

```
a=int(input("enter a num : "))
b=int(input("enter a num : "))
print("greater num is : ")
if(a>b):
  print(a)
else:
  print(b)
```

```
enter a num : 10
enter a num : 100
greater num is :
100
```

Write a program for finding surface areas of cylinder and cone

```
import math
def Cylinder(r,h):
  return 2*math.pi*r*r*h
def cone(r,h):
  return (1/3)*math.pi*r*r*h
r=int(input("enter r value : "))
h=int(input("enter h value"))
print("surface area of cylinder is : %.2f"%Cylinder(r,h))
print("surface area of cone is : %.2f "%cone(r,h))
```

```
enter r value : 5
enter h value3
surface area of cylinder is : 471.24
surface area of cone is : 78.54
```

Find the greatest of four nos (using ‘and’ operator) using funct

```
a=int(input("enter 1st num: "))
b=int(input("enter 2nd num: "))
c=int(input("enter 3rd num: "))
d=int(input("enter 4th num: "))
print("greater num is : ")
if(a>b and a>c and a>d):
  print(a)
elif(b>c and b>d):
  print(b)
elif(c>d):
  print(c)
else:
  print(d)
```

```
enter 1st num: 5
enter 2nd num: 8
enter 3rd num: 7
enter 4th num: 9
greater num is :
9
```

Write a menu program to perform the operations (ODDorEven, PrimeUptoN) using functions for two nos with menu choice

```
loop = 1
choice = 0

def oddoreven(a):
```

```
  if(a%2==0):
    print("even")
  else:
    print("odd")
def fact(num):
  factorial=1
  if num < 0:
     print("Sorry, factorial does not exist for negative numbers")
  elif num == 0:
     print("The factorial of 0 is 1")
  else:
     for i in range(1,num + 1):
         factorial = factorial*i
     print("The factorial of",num,"is",factorial)
def odd(n):
   print("odd numbers: ");
   for i in range(1,n+1):
      if(i%2!=0):
        print(i)
def prime(l,h):
  print("prime numbers: ")
  for num in range(l,h + 1):
   if num > 1:
       for i in range(2,num):
           if (num % i) == 0:
               break
       else:
           print(num)

while loop == 1:
  print ("Welcome")
  print ("your options are:")
  print ("")
  print("1) odd or even")
  print("2) factorial")
  print("3) odd upto n")
  print("4) prime upto n")
  print("5) Quit ")
  print("")
  try:
    choice = int(input("Choose your option: "))
  except:
     print('please enter a valid number for option')
     print("")
  print("")
  if choice == 1:
       x = int(input(" Enter  no: "))
       oddoreven(x)

  elif choice == 2:
     x = int(input("Enter  no: "))
     fact(x)
```

```
    fact(x)

  elif choice == 3:
      x = int(input("Enter range: "))
      odd(x)

  elif choice == 4:
       x = int(input("Enter lower range: "))
       y = int(input("Enter upper range: "))
       prime(x,y)

  elif choice == 5:
      loop = 0

  else:
       print("please choice a valid option from 1 to 5")
       choice=0
print ("Thank-you ")
```

```
Welcome
your options are:

1) odd or even
2) factorial
3) odd upto n
4) prime upto n
5) Quit

Choose your option: 1

 Enter  no: 10
even
Welcome
your options are:

1) odd or even
2) factorial
3) odd upto n
4) prime upto n
5) Quit

Choose your option: 2

Enter  no: 5
The factorial of 5 is 120
Welcome
your options are:

1) odd or even
2) factorial
3) odd upto n
4) prime upto n
5) Quit

Choose your option: 3

Enter range: 10
odd numbers:
1
3
5
7
9
Welcome
your options are:

1) odd or even
2) factorial
3) odd upto n
4) prime upto n
5) Quit

Choose your option: 4

Enter lower range: 1
Enter upper range: 10
```

```
prime numbers:
2
3
5
7
Welcome
your options are:

1) odd or even
2) factorial
3) odd upto n
4) prime upto n
5) Quit

Choose your option: 5

Thank-you
```