In [23]:
```
p=int(input("p value"))
n=int(input("n value"))
r=int(input("r value"))
ci=float(p*((1+n*r)/100)**n)
print("compound interest",ci)
```

```
p value10000
n value1
r value5
compound interest 600.0
```

In [9]:
```
c=int(input("c value"))
fah= float(9/5*c+32)
print("farenheit ",fah)
```

```
c value4
farenheit  39.2
```

In [15]:
```
def greatest(a,b):
    if(a>b):
        print("a is greater ")
    else:
        print("b is greater ")
a=int(input("a value:"))
b=int(input("b value:"))
greatest(a,b)
```

```
a value:45
b value:75
b is greater
```

In [17]:
```
def cylinder(r,h):
    PI=3.14
    cylinder=float(2*PI*r*r*h)
    print("surface areas of cylinder:",cylinder)
def cone(r,h):
    PI=3.14
    cone=float(1/3*PI*r*r*h)
    print("surface areas of cone:",cone)
r=int(input("r value:"))
h=int(input("h value:"))
cylinder(p,r)
cone(p,r)
```

```
r value:45
h value:3
surface areas of cylinder: 4521.6
surface areas of cone: 753.6
```

In [21]:
```
def greatest(a,b,c,d):
    if a>b and a>c and a>d:
        print("a is greater")
    elif b>a and b>c and b>d:
        print("b is greater")
    elif c>a and c>b and c>d:
        print("c is greater")
    else:
        print("d is greater")
a=int(input("a value:"))
b=int(input("b value:"))
c=int(input("c value:"))
d=int(input("d value:"))
greatest(a,b,c,d)
```

```
a value:34
b value:23
c value:123
d value:5
c is greater
```

In [65]:
```
import sympy
loop = 1
choice = 0
def oddoreven(x):
    if x%2==0:
         print("even number")
    else:
         print("odd number")


def odd(x):
    print("odd number are:\n")
    for i in range(1,x):
        if(i% 2!=0):
            print("{0}".format(i))
def Prime(x):
    for i in range(2,x):
        for j in range(2,i):
            if(i % j==0):
                break
        else:
            print(i)

while loop == 1:
    print ("Welcome to calculator.py")
    print ("your options are:")
    print("1) odddeven")
    print("2) factorial")
    print("3) odd")
    print("4) prime")
    print("5) Quit calculator.py")
    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: "))
        print(sympy.factorial(x))


    elif choice == 3:
        x = int(input("Enter no: "))
        odd(x)

    elif choice == 4:
        x = int(input("Enter 1st no: "))
        Prime(x)

    elif choice == 5:
        loop = 0

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

```
Welcome to calculator.py
your options are:
1) odddeven
2) factorial
3) odd
```

```
4) prime
5) Quit calculator.py

Choose your option: 1


Enter no: 5
odd number
Welcome to calculator.py
your options are:
1) odddeven
2) factorial
3) odd
4) prime
5) Quit calculator.py

Choose your option: 2


Enter  no: 3
6
Welcome to calculator.py
your options are:
1) odddeven
2) factorial
3) odd
4) prime
5) Quit calculator.py

Choose your option: 3


Enter no: 6
odd number are:

1
3
5
Welcome to calculator.py
your options are:
1) odddeven
2) factorial
3) odd
4) prime
5) Quit calculator.py

Choose your option: 4


Enter 1st no: 9
2
3
5
7
Welcome to calculator.py
your options are:
1) odddeven
2) factorial
3) odd
4) prime
5) Quit calculator.py

Choose your option: 5


Thank-you
```

In [ ]: