In [8]:

```
n = int(input('enter the radius:'))
area =  3.14 * n * n
print(area)
```

```
enter the radius:2
12.56
```

In [13]:

```
n1 = int(input('enter the number:'))
for i in range(1,6):
    print(n1,'*',i,' =',n1*i)
```

```
enter the number:5
5 * 1  = 5
5 * 2  = 10
5 * 3  = 15
5 * 4  = 20
5 * 5  = 25
```

In [20]:

```
usr = input('enter the user name :')
pwd = input('enter the password:')
if (pwd.find(usr) == -1):
        print("Valid")
else:
        print("Invalid")
```

```
enter the user name :sannu
enter the password:munnnu
Valid
```

In [26]:

```
n = int(input('enter the number: '))

def digit(n):
    if n < 10:
          return 1
    else:
          return 1 + digit(n/10)

print(digit(n))
```

```
enter the number: 12345
5
```

In [31]:

```
import pandas as pd
# initialize list of lists
data = [[10, 'Sujeet'], [11,'Sameer'], [12,'Sumit']]

# Create the pandas DataFrame
df = pd.DataFrame(data, columns = ['age', 'name'])

# print dataframe.
print(df[['name','age']].to_string(index=False))
```

```
  name  age
Sujeet   10
Sameer   11
 Sumit   12
```

In [32]:

```
def fact(i):
    i=i+10
    return i



def fact2(i):
    i= i-10

    return i


def fun(f1, f2, x):
    y  =0
    z=0
    if x<1:
       y =  f1(x)

    else:
      z =  f2(x)

    print('z=', z, 'x=', x)
    print('y=', y, 'x=', x)

fun(fact, fact2, 6)
fun(fact, fact2, -1)
```

```
z= -4 x= 6
y= 0 x= 6
z= 0 x= -1
y= 9 x= -1
```