

In [1]:

```
age=int(input("enter age:"))
gender=input("enter gender:")
height=float(input("enter height:"))
weight=float(input("enter weight:"))
bmi=weight/height**2
print(bmi)
if bmi < 16:
    print("age of person",age,"Gender of person",gender,"sever thickness",bmi)
elif bmi==17:
    print("age of person",age,"Gender of person",gender,"modrate",bmi)
elif bmi >18 and bmi<25:
    print("age of person",age,"Gender of person",gender,"normal",bmi)
else:
    print("age of person",age,"Gender of person",gender,"over weight",bmi)
```

```
enter age:23
enter gender:male
enter height:1.74
enter weight:65
21.469150482230148
age of person 23 Gender of person male normal 21.469150482230148
```

In [3]:

```
def fact(n):
    if n==0:
        return 1
    else:
        return n*fact(n-1)
n=int(input("number"))
res=fact(n)
print("factorila of number",n,"is",res)
```

```
number5
factorila of number 5 is 120
```

In [4]:

```
n=int(input("enter number"))
ans=(n*(n+1)/2)
res=ans*ans
print(res)
```

```
enter number4
100.0
```

In [ ]: