```
1:
def fibonnaci_seq(n):
  if n==0:
    return 0
  elif n==1:
    return 1
  else:
    return fibonnaci_seq(n-1) + fibonnaci_seq(n-2)
2:
def factorial(n):
  if n == 1:
    return 1
  else:
    return n * factorial(n-1)
```

```
weight = input('Enter your weight (in kg): ')
height = input('Enter your height (in cms): ')
if ('.' in weight) and ('.' not in height):
  weight = float(weight)
  height = int(height)
  height = height / 100
  BMI = (weight)/(height ** 2)
  print('BMI equals to: ',BMI)
elif ('.' in height) and ('.' not in weight):
  weight = int(weight)
  height = float(height)
  height = height/100
  BMI = (weight)/(height**2)
  print('BMI equals to: ',BMI)
else:
  if ('.' in weight) and ('.' in height):
    weight = float(weight)
    height = float(height)
    height = height/100
    BMI = (weight)/(height**2)
```

```
print('BMI equals to: ',BMI)
  else:
    weight = int(weight)
    height = int(height)
    height = height/100
    BMI = (weight)/(height**2)
    print('BMI equals to: ',BMI)
if BMI < 18.5:
  print('Nutritional status is under weight')
elif (BMI >= 18.5) and (BMI <= 24.9):
  print('Nutritional status is normal weight')
elif (BMI >= 25.0) and (BMI <= 29.9):
  print('Nutritional status is pre-obesity')
elif (BMI >= 30.0) and (BMI <= 34.9):
  print('Nutritional status is obesity class1')
elif (BMI >= 35.0) and (BMI <= 39.9):
  print('Nutritional status is obesity class2')
else:
  print('Nutritional status is obesity class3')
4:
num = int(input('Enter any number: '))
```