Exercise 1

```python
print('Please enter ur height in feet and inches for example 5fe
feet = float(input('Feet: '))
inches = float(input('Inches: '))
def cm(x,y):
    cm = (30.48*feet)+(2.54*inches)
    return cm


print(f"Your height is {cm(feet, inches)} in cm")
```

```
Karl@DESKTOP-JJJS6EQ MINGW64 ~/Desktop/all/assingment/the box/the box google classroom
$ python Ex1.py
Please enter ur height in feet and inches for example 5feet and 9inches
Feet: 5
Inches: 9
Your height is 175.26 in cm
```

Exercise 2

```python
Ex2.py
1    import math
2    ch = int(input('1: to convert form cm to feet and inches \n2: to convert form feet and inches to cm \n'))
3
4    def feet_inches(x):
5        if x >= 30.48:
6            feet = math.floor(x/30.48)
7            inches = (x - (feet*30.48))/2.54
8            print(f'You are {feet} feet and {inches} inches tall')
9        else:
10           inches = x/2.54
11           print(f'You are  0 feet and {inches} inches tall')
12
13   def cm(x,y):
14       cm = (30.48*x)+(2.54*y)
15       print(f"Your height is {cm} in cm")
16
17
18   if ch ==1:
19       cm = float(input('Please enter ur height in cm: '))
20       feet_inches(cm)
21
22   else:
23       print('\nPlease enter ur height in feet and inches for example 5feet and 9inches\n')
24       feet = float(input('Feet: '))
25       inches = float(input('Inches: '))
26       cm(feet, inches)
```

```
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$ python Ex2.py
1: to convert form cm to feet and inches
2: to convert form feet and inches to cm
1
Please enter ur height in cm: 157
You are 5 feet and 1.8110236220472418 inches tall

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$ python Ex2.py
1: to convert form cm to feet and inches
2: to convert form feet and inches to cm
2

Please enter ur height in feet and inches for example 5feet and 9inches

Feet: 5
Inches: 9
Your height is 175.26 in cm
```

Exercise 4

```python
Ex4.py
1    height = float(input('Please enter ur heigth in cm: '))
2    bmi = 21.7
3    def idw(h):
4        h = 175/100
5        idw = bmi*(h**2)
6        print(f"Your ideal weight is {idw}")
7
8    idw(height)
```

```
Karl@DESKTOP-JJJS6EQ MINGW64 ~/Desktop/all/assingment/the box/the box google classroom
$ python Ex4.py
Please enter ur heigth in cm: 175
Your ideal weight is 66.45625
```