BodyMassIndex.ipynb

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```
Fizz
4
Buzz
Fizz
7
8
Fizz
Buzz
```

Exercise 10: Print Pattern

```
#pattern

for i in range(5, 0, -1):
    for j in range(i, 0, -1):
        print(j, end=" ")
    print()
```

```
5 4 3 2 1
4 3 2 1
3 2 1
2 1
1
```

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```
[ ]         print("Done")
            break
        print(text)
```

```
:done
Done
```

Exercise 9: FizzBuzz

```
[ ] for i in range(1, 11):
        if i % 3 == 0 and i % 5 == 0:
            print("FizzBuzz")
        elif i % 3 == 0:
            print("Fizz")
        elif i % 5 == 0:
            print("Buzz")
        else:
            print(i)
```

```
1
2
Fizz
4
Buzz
Fizz
7
8
Fizz
Buzz
```

Exercise 10: Print Pattern

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```
[ ]
```

```
35
42
49
56
63
70
77
84
91
98
```

Exercise 8: Break the Loop on 'done'

```
[ ] while True:
        text = input(":")
        if text == 'done':
            print("Done")
            break
        print(text)
```

```
:done
Done
```

Exercise 9: FizzBuzz

```
[ ] for i in range(1, 11):
        if i % 3 == 0 and i % 5 == 0:
            print("FizzBuzz")
        elif i % 3 == 0:
            print("Fizz")
        elif i % 5 == 0:
            print("Buzz")
        else:
```

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```
The reversed number is 987654321
```

Exercise 7: Multiples of a Number

```
[ ] #multiples of a number using loop

    num = int(input("Enter a number: "))
    limit = int(input("Enter the limit: "))

    for i in range(1, limit + 1):
        if i % num == 0:
            print(i)
```

```
Enter a number: 7
Enter the limit: 100
7
14
21
28
35
42
49
56
63
70
77
84
91
98
```

Exercise 8: Break the Loop on 'done'

```
[ ] while True:
        text = input(":")
```

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```
[ ] print(f"The factorial of {num} is {factorial}")
```

```
Enter a number: 10
The factorial of 10 is 3628800
```

Exercise 6: Reverse a Number

```
[ ] #reversing a number

    num = int(input("Enter a number: "))
    reversed_num = 0

    while num > 0:
        remainder = num % 10
        reversed_num = reversed_num * 10 + remainder
        num = num // 10

    print(f"The reversed number is {reversed_num}")
```

```
Enter a number: 123456789
The reversed number is 987654321
```

Exercise 7: Multiples of a Number

```
[ ] #multiples of a number using loop

    num = int(input("Enter a number: "))
    limit = int(input("Enter the limit: "))

    for i in range(1, limit + 1):
        if i % num == 0:
            print(i)
```

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Exercise 4: Greatest of Three Numbers

```
[ ] #greatest of 3 numbers

    num1 = float(input("Enter first number: "))
    num2 = float(input("Enter second number: "))
    num3 = float(input("Enter third number: "))

    greatest = max(num1, num2, num3)
    print(f"The greatest number is {greatest}")
```

```
Enter first number: 10
Enter second number: 20
Enter third number: 30
The greatest number is 30.0
```

Exercise 5: Factorial of a Number

```
[ ] #factorial of number

    num = int(input("Enter a number: "))
    factorial = 1

    for i in range(1, num + 1):
        factorial *= i

    print(f"The factorial of {num} is {factorial}")
```

```
Enter a number: 10
The factorial of 10 is 3628800
```

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Exercise 3: Body Mass Index (BMI)

```
# BodyMassIndex.py
weight = float(input("Enter your weight in (kg): "))
height = float(input("Enter your height in (m): "))

bmi = weight / (height ** 2)
print(f"Your BMI is: {bmi:.2f}")

if bmi < 18.5:
    status = "Underweight"
elif 18.5 <= bmi < 25:
    status = "Normal"
elif 25 <= bmi < 30:
    status = "Overweight"
else:
    status = "Obese"

print(f"You are in the "{status}" range.")
```

```
Enter your weight in (kg): 75
Enter your height in (m): 1.70
Your BMI is: 25.95
You are in the "Overweight" range.
```

Exercise 4: Greatest of Three Numbers

```
[ ] #greatest of 3 numbers

    num1 = float(input("Enter first number: "))
    num2 = float(input("Enter second number: "))
    num3 = float(input("Enter third number: "))
```

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```
[ ]
```

```
Enter the month (1-12): 6
Month 6 is June
```

Exercise 2: Cinema Ticket Prices

```
[ ] #Cinema Ticket Prices

    age = int(input("Enter your age: "))
    full_price = 6

    if age < 16:
        price = full_price / 2
    elif age >= 60:
        price = full_price / 3
    else:
        price = full_price

    print(f"Your ticket costs £{price:.2f}")
```

```
Enter your age: 63
Your ticket costs £2.00
```

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Exercise 1: Month Names

```
[ ]
    month = int(input("Enter the month: "))

    if month == 1:
        print("Month 1 is January")
    elif month == 2:
        print("Month 2 is February")
    elif month == 3:
        print("Month 3 is March")
    elif month == 4:
        print("Month 4 is April")
    elif month == 5:
        print("Month 5 is May")
    elif month == 6:
        print("Month 6 is June")
    elif month == 7:
        print("Month 7 is July")
    elif month == 8:
        print("Month 8 is August")
    elif month == 9:
        print("Month 9 is September")
    elif month == 10:
        print("Month 10 is October")
    elif month == 11:
        print("Month 11 is November")
    elif month == 12:
        print("Month 12 is December")
    else:
        print("Invalid month! Please enter a number between 1 and 12.")
```

```
Enter the month (1-12): 6
Month 6 is June
```