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Python

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JupyterLab Python 3 (ipykernel)

[]: #Control Statements in Python

[]: #Exercise 1
Name your file: MonthNames.py
Write a program that reads an integer value between 1 and 12 from the user and prints output the corresponding month of the year.
An example run of the program (numbers in bold are typed in by the user)
Enter the month: 3
Month 3 is March

[1]: def get_month(num):
 months = ["January", "February", "March", "April", "May", "June",
 "July", "August", "September", "October", "November", "December"]
 return months[num - 1]

 num = int(input("Enter the month: "))
 if 1 <= num <= 12:
 print(f"Month {num} is {get_month(num)}")
 else:
 print("Invalid month number")

 Enter the month: 2
 Month 2 is February

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JupyterLab Python 3 (ipykernel)

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[ ]: #Exercise 3
Name your file: BodyMassIndex.py
Write a program to calculate your BMI and give weight status. Body Mass Index (BMI) is an internationally used measurement to check if you are a healthy person.
BMI= weight(kg)/height2(m2)
BMI Weight Status Categories table
BMI range - kg/m2    Category
Below 18.5           Underweight
18.5 - 24.9          Normal
25 - 29.9            Overweight
30 & Above           Obese
An example run of the program (numbers in bold are typed in by the user)
Enter your weight in (kg): 75
Enter your height in (m): 1.70
Your BMI is: 25.95
You are in the "overweight" range
```


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```
Enter your weight in (kg): 60
Enter your height in (m): 165
Your BMI is: 0.00
You are in the "Underweight" range.

[ ]: #Exercise 4
Write a Python program to receive 3 numbers from the user and print the greatest among them.

[7]: # GreatestNumber.py

def find_greatest(a, b, c):
    return max(a, b, c)

a = float(input("Enter first number: "))
b = float(input("Enter second number: "))
c = float(input("Enter third number: "))

print(f"The greatest number is: {find_greatest(a, b, c)}")

Enter first number: 3
Enter second number: 4
Enter third number: 5
The greatest number is: 5.0

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```
# Exercise 4
def find_greatest(a, b, c):
    if a > b and a > c:
        return a
    elif b > a and b > c:
        return b
    else:
        return c

print(f"The greatest number is: {find_greatest(a, b, c)}")

Enter first number: 3
Enter second number: 4
Enter third number: 5
The greatest number is: 5.0

[ ]: #Exercise 5
Find the factorial of a given number using loops(note the number is received from the user)

[9]: def calculate_factorial(n):
      factorial = 1
      for i in range(1, n + 1):
          factorial *= i
      return factorial

      num = int(input("Enter a number: "))
      if num >= 0:
          print(f"The factorial of {num} is: {calculate_factorial(num)}")
      else:
          print("Factorial is not defined for negative numbers")

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

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```
num = int(input("Enter a number: "))
if num >= 0:
    print(f"The factorial of {num} is: {calculate_factorial(num)}")
else:
    print("Factorial is not defined for negative numbers")
```

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

```
[ ]: #Exercise 6
Reverse a number using while loop
```

```
[11]: def reverse_number(n):
        reversed_num = 0
        while n > 0:
            digit = n % 10
            reversed_num = reversed_num * 10 + digit
            n //= 10
        return reversed_num

num = int(input("Enter a number: "))
print(f"The reverse of {num} is: {reverse_number(num)}")
```

```
Enter a number: 4
The reverse of 4 is: 4
```

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Enter a number: 4
The reverse of 4 is: 4

[]: #Exercise 7
Finding the multiples of a number using loop

[13]: # Multiples.py

def print_multiples(n):
 for i in range(1, 11):
 print(f"{n} x {i} = {n * i}")

num = int(input("Enter a number: "))
print_multiples(num)

Enter a number: 4
4 x 1 = 4
4 x 2 = 8
4 x 3 = 12
4 x 4 = 16
4 x 5 = 20
4 x 6 = 24
4 x 7 = 28
4 x 8 = 32
4 x 9 = 36
4 x 10 = 40

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```
4 x 7 = 28
4 x 8 = 32
4 x 9 = 36
4 x 10 = 40

[ ]: 5#Exercise 8
Write a program to print the inputted value as it is and break the loop if the value is 'done'.
Example run of the program
:hello there
hello there
:finished
finished
:done
Done

[15]: # PrintInput.py

while True:
    user_input = input(":")
    if user_input.lower() == "done":
        print("Done")
        break
    else:
        print(user_input)

: 7
7
: 6
6
: done
Done

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[]: #Exercise 9
Write a program that prints the numbers from 1 to 10. But for multiples of three print "Fizz" instead of the number and for the multiple of five print "B

[17]: #FizzBuzz.py

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

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JupyterLab Python 3 (ipykernel)

Fizz
Buzz

[]: #Exercise 10
Write a program to **print** the following pattern:

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

[19]: # Pattern.py

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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