

assignment-1-1

August 13, 2024

```
[1]: !pip install pyppeteer
```

```
Collecting pyppeteer
  Downloading pyppeteer-2.0.0-py3-none-any.whl.metadata (7.1 kB)
Collecting appdirs<2.0.0,>=1.4.3 (from pyppeteer)
  Downloading appdirs-1.4.4-py2.py3-none-any.whl.metadata (9.0 kB)
Requirement already satisfied: certifi>=2023 in /usr/local/lib/python3.10/dist-packages (from pyppeteer) (2024.7.4)
Requirement already satisfied: importlib-metadata>=1.4 in /usr/local/lib/python3.10/dist-packages (from pyppeteer) (8.2.0)
Collecting pyee<12.0.0,>=11.0.0 (from pyppeteer)
  Downloading pyee-11.1.0-py3-none-any.whl.metadata (2.8 kB)
Requirement already satisfied: tqdm<5.0.0,>=4.42.1 in /usr/local/lib/python3.10/dist-packages (from pyppeteer) (4.66.5)
Collecting urllib3<2.0.0,>=1.25.8 (from pyppeteer)
  Downloading urllib3-1.26.19-py2.py3-none-any.whl.metadata (49 kB)
    49.3/49.3 kB
739.5 kB/s eta 0:00:00
Collecting websockets<11.0,>=10.0 (from pyppeteer)
  Downloading websockets-10.4-cp310-cp310-manylinux_2_5_x86_64.manylinux1_x86_64.manylinux_2_17_x86_64.manylinux2014_x86_64.whl.metadata (6.4 kB)
Requirement already satisfied: zipp>=0.5 in /usr/local/lib/python3.10/dist-packages (from importlib-metadata>=1.4->pyppeteer) (3.19.2)
Requirement already satisfied: typing-extensions in /usr/local/lib/python3.10/dist-packages (from pyee<12.0.0,>=11.0.0->pyppeteer) (4.12.2)
Downloading pyppeteer-2.0.0-py3-none-any.whl (82 kB)
    82.9/82.9 kB
1.4 MB/s eta 0:00:00
Downloading appdirs-1.4.4-py2.py3-none-any.whl (9.6 kB)
Downloading pyee-11.1.0-py3-none-any.whl (15 kB)
Downloading urllib3-1.26.19-py2.py3-none-any.whl (143 kB)
    143.9/143.9 kB
5.4 MB/s eta 0:00:00
Downloading websockets-10.4-cp310-cp310-manylinux_2_5_x86_64.manylinux1_x86_64.manylinux_2_17_x86_64.manylinux2014_x86_64.whl (106 kB)
    106.8/106.8 kB
7.7 MB/s eta 0:00:00
```

Installing collected packages: appdirs, websockets, urllib3, pyee, pyppeteer

Attempting uninstall: urllib3

Found existing installation: urllib3 2.0.7

Uninstalling urllib3-2.0.7:

Successfully uninstalled urllib3-2.0.7

Successfully installed appdirs-1.4.4 pyee-11.1.0 pyppeteer-2.0.0 urllib3-1.26.19 websockets-10.4

```
[2]: import asyncio
      from pyppeteer import launch
```

```
[3]: async def export_pdf(url, output):
      browser = await launch()
      page = await browser.newPage()
      await page.goto(url, waitUntil='networkidle0')
      pdf = await page.pdf(output)
      await browser.close()
      return pdf
```

```
[4]: # Write a python program to implement a simple calculator using user input and
      ↪conditional logic.

      # Function to add two numbers.
      def add(num1, num2):
          return num1 + num2

      # Function to subtract two numbers.
      def subtract(num1, num2):
          return num1 - num2

      # Function to multiply two numbers.
      def multiply(num1, num2):
          return num1 * num2

      # Function to divide two numbers
      def divide(num1, num2):
          return num1 / num2

      print("Please select operation -\n" \
            "1. Add\n" \
            "2. Subtract\n" \
            "3. Multiply\n" \
            "4. Divide\n")

      # Take input from the user
```

```

select = int(input("Select operations form 1, 2, 3, 4 :"))

number_1 = int(input("Enter first number: "))
number_2 = int(input("Enter second number: "))
if select == 1:
    print(number_1, "+", number_2, "=",
          add(number_1, number_2))

elif select == 2:
    print(number_1, "-", number_2, "=",
          subtract(number_1, number_2))

elif select == 3:
    print(number_1, "*", number_2, "=",
          multiply(number_1, number_2))

elif select == 4:
    print(number_1, "/", number_2, "=",
          divide(number_1, number_2))
else:
    print("Invalid input")

```

Please select operation -

1. Add
2. Subtract
3. Multiply
4. Divide

Select operations form 1, 2, 3, 4 :1

Enter first number: 2

Enter second number: 3

2 + 3 = 5

[5]: *# Write a python program to generate a multiplication table for a given number.*

```

ourNum = int(input("Enter the number you want to generate a multiplication_
↳table for, then hit the `enter` key: "))
ourRange = range(1,11)
for x in ourRange:
    result = ourNum * x
    print(ourNum, " * ", x, " = ", result)

```

Enter the number you want to generate a multiplication table for, then hit the
`enter` key: 16

```

16 * 1 = 16
16 * 2 = 32
16 * 3 = 48
16 * 4 = 64

```

```

16 * 5 = 80
16 * 6 = 96
16 * 7 = 112
16 * 8 = 128
16 * 9 = 144
16 * 10 = 160

```

[6]: # Create python functions to calculate the area and perimeter of different shapes(circle,rectangle,triangle).

```

print("Enter number to select shape:")
print("1.Triangle")
print("2.Rectangle")
print("3.Circle")
n = int(input("Enter your choice 1,2,3,4 :"))
if (n==1):
    S1 = int(input("Enter the length of Side 1 :"))
    S2 = int(input("Enter the length of Base :"))
    S3 = int(input("Enter the length of Side 3 :"))
    h = int(input("Enter the height of the triangle :"))
    print ("Perimeter of trinagle is ",(S1+S2+S3))
    print ("Area of triangle is ",(1/2*S2*h))
elif (n==2):
    l = int(input("Enter the length of the rectangle :"))
    b = int(input("Enter the base of the rectangle :"))
    print("Perimeter of the rectangle is : ",(2*(l+b)))
    print("Area of the rectangle is : ",(l*b))
elif(n==3):
    r = int(input("Enter the radius of the circle :"))
    print("Circumference of the circle is ",(2*3.14*r))
    print("Area of the circle is ",(3.14*r*r))
else:
    print("Invalid Option")

```

```

Enter number to select shape:
1.Triangle
2.Rectangle
3.Circle
Enter your choice 1,2,3,4 :3
Enter the radius of the circle : 3
Circumference of the circle is  18.84
Area of the circle is  28.259999999999998

```

[7]: # Write a python program to create a list of names and sort it alphabetically.

```

my_str = "Hello mam , My name is Jyoti Indore"

# To take input from the user
my_str = input("Enter a string: ")

```

```

# breakdown the string into a list of words
words = [word.lower() for word in my_str.split()]

# sort the list
words.sort()

# display the sorted words

print("The sorted words are:")
for word in words:
    print(word)

```

The sorted words are:

```

,
hello
indore
is
jyoti
mam
my
name

```

```

[8]: # Write a python program to find the maximum and minimum values in a list.
l=eval(input("Enter a list of numbers "))
# [4,7,9,10,45,21,46,67,23] --- input
print("min=",min(l))
print("max=",max(l))

```

```

Enter a list of numbers 2,5,6,8,9
min= 2
max= 9

```

```

[9]: # Write a python program to convert a list into a tuple and vice versa.
# Create a list containing a sequence of numbers
listx = [5, 10, 7, 4, 15, 3]
# Print the contents of the 'listx' list
print(listx)

# Use the 'tuple()' function, a built-in Python function, to convert the
↳ 'listx' list to a tuple
tuplex = tuple(listx)
# Print the contents of the 'tuplex' tuple
print(tuplex)

```

```

[5, 10, 7, 4, 15, 3]
(5, 10, 7, 4, 15, 3)

```