Variables-Expressions-Statements

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1 Variables, Expressions, and Statements

1.0.1 Variables

```
In [1]: print(4)
```

4

```
In [2]: type(4)
```

```
Out[2]: int
```

```
In [3]: type("Hello World")
```

```
Out[3]: str
```

```
In [4]: message = "This is our first python workshop"
```

```
In [5]: print(message)
```

This is our first python workshop

```
In [6]: message
```

```
Out[6]: 'This is our first python workshop'
```

1.0.2 Operators and Operands

```
In [7]: 7/2
```

```
Out[7]: 3.5
```

```
In [8]: # The following operator performs interger division
        7//3
```

```
Out[8]: 2
```

```
In [9]:  # The following performs exponentiation

         3**2

Out[9]: 9

In [10]:  # Modulus Operator

          quotient = 7//3
          print(quotient)

          remainder = 7%3
          print(remainder)

2
1


In [11]:  # String operations
          print("Python"+ "workshop")
          print("Quotient:" + str(quotient))

Pythonworkshop
Quotient:2


In [12]:  # Asking the user for input

          myinput = input()

Hello world!


In [13]: print("My input is: " + str(myinput))

My input is: Hello world!


In [14]:  # Ask the user for the year they were born, and compute their age

          year = input("What year were you born?\n")

          age = 2018 - int(year)

          print("My age is: " + str(age))

What year were you born?
1996
My age is: 22
```

1.0.3 Exercises

Write a program to prompt the user for hours and rate per hour to compute gross pay.

```
In [15]: hours = input("Enter Hours: ")
         rate = input("Enter Rate: ")
         gross_pay = int(hours) * float(rate)
         print("Your gross pay is: "+ str(gross_pay))

Enter Hours: 20
Enter Rate: 24.5
Your gross pay is: 490.0
```