Review: Print Statements

print(“Hello World”) #this is a string. Prints Hello World

print(5) #this is an integer. Prints 5

print(10+2) #also and integer. Solves the equation and prints 7

print(“5+2”) #this is a string because it’s in quotes. Prints 5+2

Class github

- https://github.com/IlyaBaburashvili/RBH-Coding-Class-2025
- Will contain slides for each class + programs we write

Variables

- Used to store data
- Can be referenced later in the program or updated/modified

```
name="John"   #puts John into variable name
age=18   #puts 18 into variable age
print(name)  #prints John
print(age)   #prints 18
print("My name is", name) #combines string and variable. #Prints My name is John
print("I am", age, "years old") #prints I am 18 years old
```

Mathematical operations with variables

```
a=5
b=4
c=a+b
print(c)
d=a+b+c
print(d)
d=d+d
print(d)
```

Updating variables

```
a = 10
a = a+1
print(a)
```

Shorter way:

```
a = 10
a += 1
print(a)
```

String concatenation

```
string1 = "Hello"
string2 = "World"
combined_string = string1 + string2
print(combined_string)
# Prints HelloWorld (no space)
```

String concatenation

- To add a space:

```
combined_string = string1 + “ “ + string2
print(combined_string)
# Prints Hello World

string1 = "Hello"
string2 = "World"
print(string1, string2)
```

String concatenation

- Add to an existing string:

```
string1 = "Hello"
string1 += “ World” #adds World onto end of string1
print(string1) #print Hello World
```

Creating a sentence

```
name = “Alice”

age = 18

greeting = “Hi, my name is “ + name + “ and I am “ str(age) + “ years old.”

print(greeting)

#prints Hi, my name is Alice and I am 18 years old
```

Creating a sentence

```
name = “Alice”
age = 18
greeting = f“Hi, my name is {name} and I am {age} years old.“
print(greeting)
```

Taking user input

name=input(“ What’s your name?”)

#this allows the user of your program to input their name

and stores it in variable name

print(name) #this will print out whatever the user entered

age=int(input(“Enter you age: “)) # int stands for integer. Integer means a whole number like 1, 2, 3 etc. this allows the user to enter their age.

#This will only allow the user to enter a number. If they put in letters, there will be an error.

print(age) #will print out the number the user entered as their age

Program 1: Favorite food

- Ask the user to enter their favorite food.
- Print out: Your favorite food is whatever the user entered

Program 2: Asking user for their information

- Ask the user to enter their name
- Ask the user to enter their age
- Ask the user to enter their date of birth
- Ask any other information you want
- Print all of these out as a greeting with complete sentences

Program 4: What year were you born

- Ask the user to enter their age
- Calculate and print out the year they were born in
- Then calculate and print out what year they will turn 100

Program 4: Mad Libs

- Ask the user for a person or animal
- Ask the user for a place
- Ask the user for an activity
- Print out this sentence or another sentence you want in this format:
- One day, a **user person or animal** went to **user place** and tried to **user activity**.

Program 5: Poem generator

- Take this poem:
- “Roses are red”
- “Violets are blue”
- “Sugar is sweet”
- “So are you”
- Ask the user to enter 4 words
- Print out the poem again but replacing each underlined word with one of the words the user entered.