

COMP
110

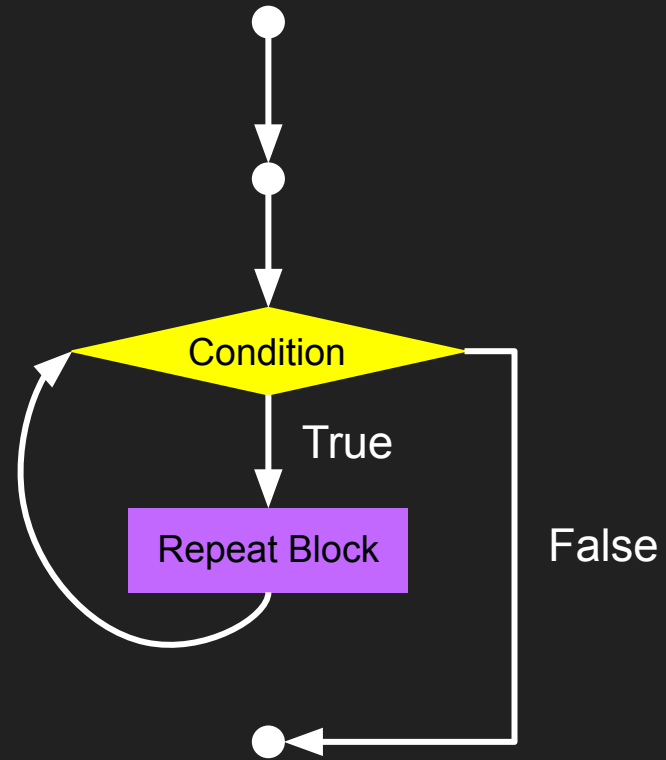
CL03 - Practice with
Conditionals, While Loops, and
Boolean Expressions

Assignments

- Only use concepts covered in class
- Late policy:
 - Email comp110help@gmail.com for extension requests
 - Generally only LATE due date is extended
 - Look up late point insurance
 - Late points + Early bonus points calculated at end of semester!
- Ed Stem
 - For logistical + conceptual questions
 - For exercise questions, you'll likely get redirected to Office Hours

Practice with While Loops

- “Iteration” - one pass through a while loop
- Often “i” (or “idx”) is used as the counter to track the loop



Practice With Conditionals: What input would give these different outputs?

```
1 response: int = int(input("Pick an even number < 10: "))
2
3 if (response % 2 != 0) or (response >= 10):
4 |     print("Wrong number")
5 if (response < 10):
6 |     print("Guess was less than 10.")
7 if response % 2 == 0:
8 |     print("Guess was even.")
```

```
1 response: int = int(input("Pick an even number < 10: "))
2
3 if (response % 2 != 0) or (response >= 10):
4 |     print("Wrong number")
5 else:
6 |     if (response < 10):
7 |         print("Guess was less than 10.")
8 if response % 2 == 0:
9 |     print("Guess was even.")
```

Practice Memory Diagram

```
1  x = 1
2  y = 2
3  z = "x"
4
5  if x > y:
6  |   print(str(x))
7  else:
8  |   if y % 2 == 0:
9  |   |   print(str(y))
10 print(z)
```

Practice Memory Diagram

```
1  """A tracing practice question"""
2
3  i: int = 0
4  s: str = ""
5
6  while i < 4:
7      |   if i % 2 == 0:
8          |       s = s + "h"
9          |   else:
10         |       if i % 3 == 0:
11             |           s = s + "!"
12             |       else:
13                 |           s = s + "e"
14         |       i = i + 1
```

Practice With Loops

Writing some code...

Write a program that guesses a random number but gives clues about whether or not their guess was even or odd, too high or too low...