
Review Quiz 1

Assignment 3 - Question 1

Program to print odd/even number ending with 17.

```
num = 17
```

```
for i in range(1,num+1):  
    if not i%2:  
        print(str(i)+" is even")  
    else:  
        print(str(i)+" is odd")
```

Assignment 3 - Question 2

Program to print first 5 prime numbers.

```
num = 0
i = 2

while True:
    for j in range(2,i):
        if (i % j) == 0:
            break
    else:
        print(i,"is a prime number")
        num+=1
    if num == 5:
        break

    i+=1
```

Variables, Expressions, Statements

- Variables, Expressions, Statements
- Data types (e.g. str, int)
- Type conversion
- Keywords (e.g. for, while, import)
- Operators (e.g. +, -, **, %)
- Operands
- Order of operation
- input()

Control Flow (If/Else)

- Boolean (True/False)
- Conditionals
 - and/or/not
- if() vs elif() vs else()
- try() and except()

Try/Except

- Used to circumvent errors

try:

```
int(x)
```

```
print("x is an integer")
```

except:

```
pass
```

Conditional: not

- 'not' is a Logical operator that will return True if the expression is False.
- 'not' is used in if statements.
 - If x is True, then not will evaluate as false, otherwise, True.

x=0

if x is not 0:

 print("x is not 0")

else:

 print("x is zero")

Control Flow (For/While)

- `for()` vs `while()`
- Iteration
- Array
- `break/continue/pass`

Array() or List

- Variable that can hold more than one value
- Index: the number to select specific element in list
 - Starts with zero
- `shoppingCart = ["apple", "orange", "pear"]`
- `numList = [123, 321, 345]`
- For-loop can be used to **iterate** through list