Week 3

```
#1:
def greet_user():
    name = input("Enter your name: ")
    if name:  # Check if name is not empty
        print(f"Hello, {name}!")
    else:
        print("Hello, Stranger!")

greet_user()
```

Enter your name: lara

Hello, lara!

```
#2:
def set_password():
    password = input("Enter your new password: ")
    confirm_password = input("Confirm your new password: ")

    if password == confirm_password:
        print("Password Set")
    else:
        print("Error")

set_password()
```

Enter your new password: password123

Confirm your new password: password321

Error

```
#3:
def set_password():
    password = input("Enter your password from 8-12 characters: ")
    if 8 <= len(password) <= 12:
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        print("Valid length for password")
    else:
        print(" Password must be between 8 and 12 character.")
        return

    confirm_password = input("Confirm your new password: ")

    if password == confirm_password:
        print("Password Set")
    else:
        print("Error: Passwords do not match.")

set_password()
```

Enter your password from 8-12 characters: 9860260766aa

Valid length for password

Confirm your new password: 9860260766aa

Password Set

```
#4:
def set_password():
    BAD_PASSWORDS = ['password', 'letmein', 'sesame', 'hello', 'justinbieber']

    password1 = input("Enter a password between 8-12 characters: ")

    if 8 <= len(password1) <= 12:
        if password1 not in BAD_PASSWORDS:
            password2 = input("Confirm your password: ")
            if password1 == password2:
                print("Password Set")
            else:
                print("Error: Passwords do not match")
        else:
            print("Error: Bad password")
    else:
        print("Error: Password must be between 8 and 12 characters.")
set_password()
```

Enter a password between 8-12 characters: password

Error: Bad password

```
#5:
BAD_PASSWORDS = ['password', 'letmein', 'sesame', 'hello', 'justinbieber']

while True:
    password = input("Enter your password: ")
    confirm_password = input("Confirm your password: ")

    valid_length = 8 <= len(password) <= 12
    good_password = password not in BAD_PASSWORDS
    final_password = password == confirm_password

    if valid_length and good_password and final_password:
        print("Password Set")
        break
    else:
        print("Invalid password")
```

Enter your password: assignment

Confirm your password: assignment

Password Set

```
#6:
num = int(input("Enter a number: "))
for i in range(0, 13):
    print(f"{i} x {num} = {i*num}")
```

Enter a number: 8

0 x 8 = 0

1 x 8 = 8

2 x 8 = 16

3 x 8 = 24

4 x 8 = 32

5 x 8 = 40

6 x 8 = 48

7 x 8 = 56

8 x 8 = 64

9 x 8 = 72

10 x 8 = 80

11 x 8 = 88

12 x 8 = 96

```
#7:
num = int(input("Enter a number: "))
if num in range(0, 13):
    for i in range(0, 13):
        print(f"{i} x {num} = {i*num}")
else:
    print("Please enter a number between range 0-12")
```

Enter a number: 9

0 x 9 = 0

1 x 9 = 9

2 x 9 = 18

3 x 9 = 27

4 x 9 = 36

5 x 9 = 45

6 x 9 = 54

7 x 9 = 63

8 x 9 = 72

9 x 9 = 81

10 x 9 = 90

11 x 9 = 99

12 x 9 = 108

```python
#8:
num = int(input("Enter a number: "))

if num < 0:
    for i in range(12, -1, -1):
        print(f"{i} x {num} = {i*num}")
else:

    for i in range(0,13):
        print(f"{i} x {num} = {i*num}")
```

Enter a number: 6

0 x 6 = 0

1 x 6 = 6

2 x 6 = 12

3 x 6 = 18

4 x 6 = 24

5 x 6 = 30

6 x 6 = 36

7 x 6 = 42

8 x 6 = 48

9 x 6 = 54

10 x 6 = 60

11 x 6 = 66

12 x 6 = 72