

Second class

A.

1. Create two variables name X and Y.
2. Print “BIG” if X is bigger than Y .
3. Print “small” if X is smaller than Y.

B.

1. Run a “for” loop 5 times.
2. Print iteration number every time.

C.

1. Create a variable and initialize it with a number 1-4.
 2. Create 4 conditions (if-elif) which will check the variable.
 3. print the season name accordingly:
- 1 = summer
 - 2 = winter
 - 3 = fall
 - 4 = spring

D.

1. how many times will the following loop run?
2. what will be printed last?

```
count = 1
while count < 11:
    print(count)
    count = count + 1
```

E.

Write a program with variables holding the following:

1. Your age.
 2. First letter of your last name.
 3. Current shekels-dollar currency.
 4. Did you flew abroad (true/false)
 5. Your apartment number.
- Print all variables.
 - Add the currency to your age, and check the result.

F.

Create a program which uses input with the following:

1. Ask user for his phone number
2. Print the words "phone number" and the phone number the user entered.

G.

Write a program with the following:

1. Method named printHello() that prints the word "hello".
2. Method named calculate() which adds 5+3.2 and prints the result.

H.

Write a program with the following:

1. Method that receive your name and prints it.
2. Method that receive a number, divide it by 2, and prints the result.

I.

Write a program with the following:

1. Method that receive two numbers, add them, and return the sum.
2. Method that receive two Strings, add space between them, and return one spaced string.

Challenges:

K.

Create a nested for loop (loop inside another loop) to create a pyramid shape:

```
#
##
###
####
#####
```

L.

Create a nested for loop to create X shape (width is 7, length is 7):

```
#       #
#     #
#   #
# #
#
# #
#   #
#     #
#       #
```

M.

Write a program with the following:

1. Method that gets a number from the user (using input).
2. Method that receive the number from the first method, and computes the sum of the digits the integer (e.g. $25 = 7$, $2+5=7$)