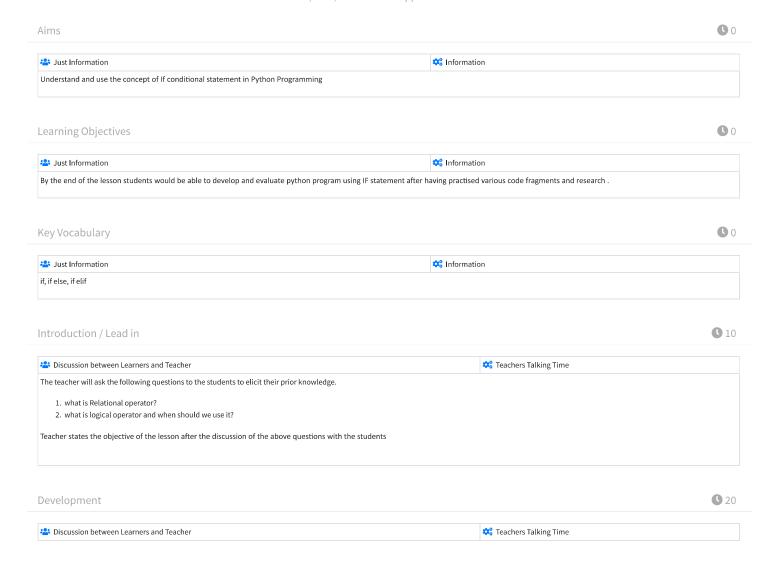


## **Lesson Plan**

## Cambridge IGCSE Computer Science (0478) - Year 8

WEEK #12 - LP #1 - CAMBRIDGE IGCSE COMPUTER SCIENCE (0478) - Y 8 - 60 - LP Approved



Teacher will review previously covered lessons and introduce new topic. Code fragments will be displayed on the screen, and students will actively participate in identifying errors or bugs within the code. This interactive approach fosters student-teacher engagement, promoting the development of their programming skills through real-time problem-solving discussions.

Incorrect Code

```
number = 0

if number > 0:
print("Positive number")

elseif number == 0:
    print('Zero')
else:
    print('Negative number')

CorrectCode

number = 0

if number > 0:
    print("Positive number")

elif number == 0:
    print('Zero')
else:
    print('Negative number')
```

for i in range(1, 11, 1): # 2 \*i (current number) product = n \* i print(product)

Learners watch the following video for further information about for loop in python

IF else statement: https://www.youtube.com/watch?v=qf0sfRZ0hHc

Sr#	Resource Name	Resource Type	Details	Qty	
1	Games/Video	URL	https://www.youtube.com/watch?v=qf0sfRZ0hHc	С	

Practice work

**Q** 20

## 🐸 Individual Learner

😂 Learners Individual Work

An assessment of research and information identification skills will be conducted, focusing on specific topics. Students will assess and enhance their program codes through practical exercises. The following coding challenges will be undertaken.

• Write a program to take values of length and breadth of a rectangle from user and check if it is square or not.

```
print "Enter length"
length = input()
print "Enter breadth"
breadth = input()
if length == breadth:
    print "Yes, it is square"
else:
    print "No, it is only Rectangle"
```

 $\bullet~$  A shop will give discount of 10% if the cost of purchased quantity is more than 1000.

Ask user for quantity. Suppose, one unit will cost 100. Judge and print total cost for user

```
print "Enter quantity"
quantity = input()
if quantity*100 > 1000:
    print "Cost is",((quantity*100)-(.1*quantity*100))
else:
    print "Cost is",quantity*100
```

- A student will not be allowed to sit in exam if his/her attendence is less than 75%. Take following input from user.
  - Number of classes held.
  - Number of classes attended.
  - And print percentage of class attended. Is student is allowed to sit in exam or not.

```
print "Number of classes held"
noh = input()
print "Number of classes attended"
noa = input()
atten = (noafloat(noh))*100
print "Attendence is",atten
if atten >= 75:
print "You are allowed to sit in exam"
else:
    print "Sorry, you are not allowed. Attend more classes from next time."
```



Teacher to the leaners

MA & HA- will be able to write the python code by themselves and do the peer checking

LA- will get the help from the teacher whenever required.

Discussion

Video

Plenary 0 10

Learners Cive me Five

Students will be writing the five challenges they faced while writing the programs and teacher will reflect on the same .