The National
Orthodox School
Shmaisani

Flowchart
Revision 1 (Answer Key)

Name:	Grade / Section: ….
Date: ………………….	1ˢᵗ Semester 2022/ 2023

Important Notes:

- The print () function is used to get the output. This function is used to display the specified message or value in the console.
- All commands must be in small letters.
- Comments can be used to explain Python code, Comments starts with #.
- Variable name must
    a) start with a letter or the underscore character
    b) be one word only - no spaces
    c) not contain special characters like (+-$@/...)
    d) underscore and letters are allowed
- Variable names are case-sensitive (age, Age and AGE are three different variables)
- Data types:
    a) **Text** is stored as **string** data type.
    b) **Whole** numbers are stored as **integer** data type.
    c) **Real** Numbers (with **decimal point**) are stored as **float** data type.

Question #1: Circle the correct variable names:

a-	1num=3	**Error – start with a letter**
b-	H+1=50	**Error – special character**
c-	Emp_Name=" Maria"	**Correct**
d-	Su m=2	**Error – space**
e-	**W2=3**	**Correct**
f-	**Total=2**	**Correct**
g-	mul@iple=34	**Error -special character**
h-	A2A=4	**Correct**
i-	Studentname="Fares "	**Correct**

Question #2: Write a program that:

a- **Find the area of a triangle**

> Area = 1/2*B*H

```python
# Area = 1/2*B*H
B=int(input("Enter Base= "))
H=int(input("Enter Height="))
Area =1/2*B*H
print("Area=",Area )
```

b- **Calculate the BMI (Body Mass Index).**

> $BMI=W/(H^2)$

```python
# BMI=W/(H2)
W=float(input("Enter Weight="))
H=float(input("Enter Height="))
BMI=W/(H**2)
print(BMI)
```

Or

```python
# BMI=W/(H2)
W=float(input("Enter Weight="))
H=float(input("Enter Height="))
BMI=W/(H*H)
print(BMI)
```

c- Write a program that compare two numbers and print the largest

```python
Number1=int(input("Enter First Number="))
Number2=int(input("Enter Second Number="))
if Number1>Number2:
    print(Number1)
else:
    print(Number2)
```

d- Write a program that print whether the number is odd or even.

```python
Number1=int(input("Enter First Number="))
if Number1 %2==0:
    print("Even")
else:
    print("Odd")
```

Question #3: Find the output of the following:

a-		
	```python 1 a=8 2 b=2 3 print("a+b=",a+b) 4 print("a*b=",a*b)```	a+b=10 a*b=16
b-	```python 1 Y=70 2 Print(Y/2)```	Name Error: name 'Print' is not defined

| c- | ```
1   Amount=100
2   Years=3
3   Rate =10
4   Interest=(Amount*Years*Rate)/100
5 ▾ if Interest > 100:
6       print ( "large amount",Interest)
7 ▾ else :
8       print ("good amount",Interest)
``` | **good amount 30** |
| d- | ```
1   S=60
2   print("S+2=",S+2)
``` | **S+2=62** |
| e- | ```
1   A=5
2   A=4
3   print(A)
``` | **4** |
| f- | ```
1    A=5
2    A=7
3    print(A)
4
5    A=5
6    A=7
7    print("A")
8
9    A=5
10   A=7
11   print(a)
12
``` | **7**<br><br><br>**A**<br><br><br><br><br>**NameError: name 'a' is not defined** |
| g- | ```
1   A="Amman"
2   print(A)
3
4   A="Amman"
5   print("A")
6
7   A="Amman"
8   Print(A)
``` | **Amman**<br><br>**A**<br><br><br>**Name Error: name 'Print' is not defined** |

Question#4: Find the errors in the following program:

```
1   This is the First Program
2   A=7
3   Average =(a+b)/2
4   Print(the average is = average )
5   w=int(input)
6   p=4w
7   if p>50
8   print(very big )
9   else
10  print (very small)
11
```

```
1   # This is the First Program
2   A=7
3   b=int(input("enter number"))
4   Average=(A+b)/2
5   print("the average is=",Average)
6   w=int(input("enter number"))
7   p=4*w
8   if p>50:
9       print("very big")
10  else:
11      print("very small")
```