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## Revision for Grade 7 in Unit #2&3 Design & Technology Subject

Your Name: ..... Grade 7 -

### \* Print Function

Command	Function	Example /code	output
<code>print(" ")</code>	To print /output what written inside brackets	<code>print("hello")</code>	hello
<code>print( )</code>	To print the result of operation	<code>print(5+3)</code>	8
		<code>print(10-3)</code>	7
		<code>print(15/5)</code>	3
		<code>print(4*3)</code>	12
		<code>print(9/2)</code>	1
		<code>print(10%5)</code> <code>print(10%4)</code>	0 2
<code>print(" ", )</code>	To print the combination of text and numbers	<code>print("sum=" , 2+1)</code>	Sum= 3

Operation	Operator	Example	Python
Add	+	5 + 5	<code>print (5+5)</code>
Multiply	*	2 * 4	<code>print (2*4)</code>
Subtract	-	10 – 5	<code>print (10-5)</code>
Divide	/	10 / 2	<code>print (10/2)</code>

Operation	Output
11/4	2.75
11//4	2
11%5	1



Float number



Integer number

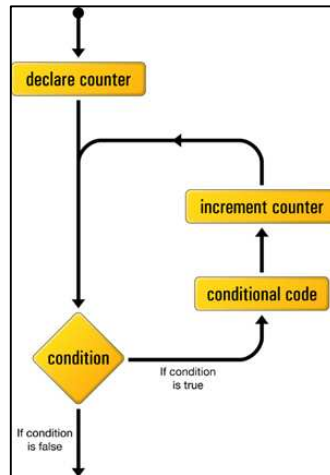
% sign it called **modulus**

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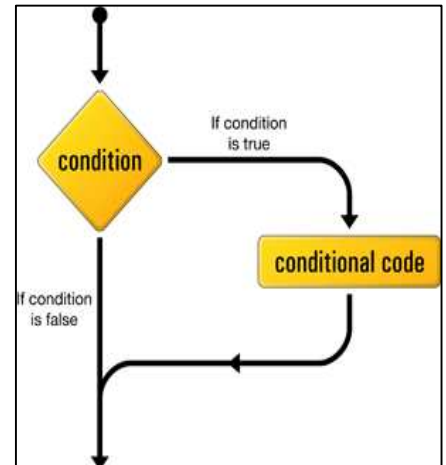
Your Name: ..... Grade 7 -

OPERATOR	NAME	EXAMPLE	ANSWER
*	Multiply	2*3	6
/	Divide (normal)	20/8	2.5
//	Divide (whole number)	20//8	2
%	Modulus	20%8	4
+	Add	2+3	5
-	Subtract	7-3	4

Relational Operators	
Operator	Meaning
<	less than
<=	less than or equal to
>	greater than
>=	greater than or equal to
==	equal to
!=	not equal to



**Loops**



**If statement**

METHOD	OUTPUT
upper()	ALL LETTERS ARE CAPTIALS.
title()	The First Character Of Each Word Is Capitalised.
swapcase()	tHIS wILL sWAP tHE iNPUT oF tHE tEXT gIVEN.
capitalize()	Just the first word is capitalised.
lower()	all of the letters are lower case letters.

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**Your Name: ..... Grade 7 -**

**SECTION 1 – Matching :Match the terms with its explanations. Write the matching letter in the correct box. The first one has been done for you. (1 mark each)**

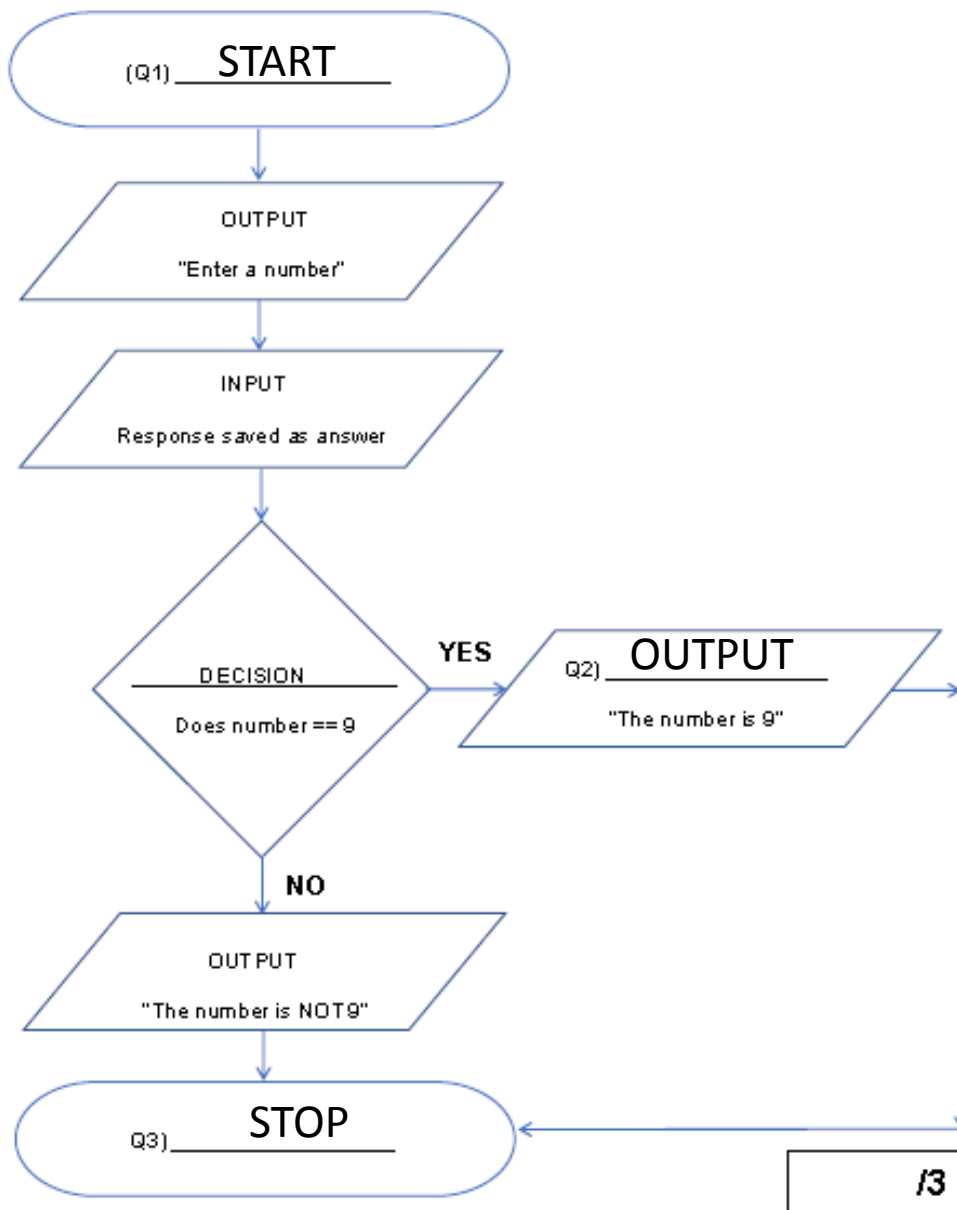
Term		Explanation
1.Syntax Error / Bug	<b>B</b>	Finding the problems in code and removing the bugs. <b>A</b>
2.Debugging	<b>A</b>	when you try and run the program and it will not run spelling mistake, or missed a character out <b>B</b>
3.Function	<b>C</b>	python knows what print() means and does display on the screen what written in between brackets <b>C</b>
4.Output	<b>D</b>	When something is processed by the computer and returned back <b>D</b>
5.String	<b>F</b>	box that you can save information inside and to store data that you might need saving or to refer to later in a program. <b>E</b>
6.Variable	<b>E</b>	is a data type used in programming and to represent text . <b>F</b>
7.Input()	<b>H</b>	is a decimal number such at 0.8 <b>G</b>
8.Float	<b>G</b>	built in function that it can be given a string which it sends to the screen <b>H</b>
9.integer	<b>I</b>	is a whole number such as 5. <b>I</b>
10. while loop	<b>K</b>	You can use one or more loop inside any another loop. <b>J</b>
11. for loop	<b>L</b>	Repeats a statement or group of statements while a given condition is TRUE. It tests the condition before executing the loop body. <b>K</b>
12. nested loops	<b>J</b>	Executes a sequence of statements defined number of times and abbreviates the code that manages the loop variable. <b>L</b>

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**SECTION 2 – Fill in the Blanks**

Fill in the blanks with answers from the answer bank. One of them has been done for you. (1 mark for each blank)

OUTPUT	START	INPUT	STOP	DECISION
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/3

## Revision for Grade 7 in Unit #2&3 Design & Technology Subject

### SECTION 3 – Multiple Choice

Choose and circle the correct answer – A, B, C or D. (1 mark each)

1. What is a string?

- A) A pseudocode
- B) A comparative operator
- C) A series of characters**
- D) A series of numbers

2. What is an algorithm?

- A) A sequence of instructions**
- B) A box to store instructions
- C) A box to store instructions
- D) A build in function

3. Which of the followed is indented?

- A) **Hello**
- B) Hello
- C) Hello**
- D) olleH

4. Which of the following is an integer input function?

- C) A) int(input())**
- B) input()
- C) print()
- D) float(input())

5. What does the operator \* do?

- A) Subtract
- B) Multiply**
- C) Divide
- D) Modulus

6. A condition-controlled loop is:

- A) iteration continues while, or until, a condition is met.**
- B) the number of iterations to occur is already known
- C) iteration not continues.
- D) the number of iterations

7. A good example of using infinite loop:

- A) Program that count to 100
- B) Program that print hello
- C) controls a traffic light you want to run forever.**
- D) Control driving car system

8. What does the operator != means?

- A) Assign value
- B) Not assign
- C) Equal
- D) Not Equal**

9. functions like input() and print() are:

- A) Built-in functions**
- B) Built-in equations
- C) Built-in variables
- D) Built-in operators

10) Anything in speech marks " " is treated as:

- A) Float Number
- B) Integer Number
- C) text**
- D) Array

## Revision for Grade 7 in Unit #2&3 Design & Technology Subject

### SECTION 3 – Multiple Choice

Choose and circle the correct answer – A, B, C or D. (1 mark each)

6. Which statement will check if a is less than b? \* (1/1 Points)

- if a >= b
- if a > b
- if a <= b:
- if (a < b)
- if a < b
- if a < b: ✓
- if a less than b:

7. Which statement will check if a is equal to b? \* (1/1 Points)

- if a equals b:
- if a === b
- if a = b:
- if a = b
- if a == b
- if a == b: ✓
- if a === b:

8. Which statement will check if a is less than or equal to b? \*

- if a < or = b:
- if a >= b:
- if a < b or == b:
- if a =< b:
- if a <= b: ✓
- if a <== b:
- if a < = b:

9. Which statement will check if a is less b and less than c? \* (1/1 Points)

- if a < b and c:
- if a < b and < c:
- if a < b and a < c: ✓
- if a < b & c:

if 3 < 4:

print("A")

else:

print("B")

print("C") \* (1/1 Points)

- Wrong Code
- A - new line - B
- A ✓
- B - new line - C
- C

## Revision for Grade 7 in Unit #2&3 Design & Technology Subject

### SECTION 3 – Multiple Choice

Choose and circle the correct answer – A, B, C or D. (1 mark each)

11. What will this code print?

```
if 3 < 4:
    print("A")
else:
    print("B")
print("C") * (1/1 Points)
```

- 3 < 4
- A - new line - B C
- A - new line - C ✓
- Wrong Code
- C A
- A B C
- A C

12. What will this code print?

```
age = 40
if (age >= 11):
    print ("You are eligible to see the Football match.")
if (age <= 20 or age >= 60):
    print("Ticket price is $12")
else:
    print("Ticket price is $20")
else:
    print ("You're not eligible to buy a ticket.") * (1/1 Points)
```

- Wrong Code
- You're not eligible to buy a ticket.
- You are eligible to see the Football match.
- You are eligible to see the Football match. - new line - Ticket price is \$12
- You are eligible to see the Football match. - new line - Ticket price is \$20 ✓

13. What will this Code print?

```
x = input("What is the time?")

if x < 10:
    print "Good morning"

else x<12:
    print "Soon time for lunch"
```

\* (1/1 Points)

- Good morning
- Soon time for lunch
- Good day
- Wrong Code ✓

14. Is the following code correct or not correct?

```
x = 5
if x == 25
    print("Quarter") * (1/1 Points)
```

- Correct
- Not correct ✓

15. Is the following code correct or not correct?

```
x = 5
if x == 25:
    print("Quarter")
else :
    print ("potato") * (1/1 Points)
```

- Correct
- Not correct ✓



## Revision for Grade 7 in Unit #2&3 Design & Technology Subject

### SECTION 4 – True or False

Choose and circle the correct answer TRUE or FALSE. (1 mark each)

1. Python is a modern interpreted programming language. **TRUE** FALSE
2. condition-controlled loops is used when the number of iterations to occur is already known. TRUE **FALSE**
3. Infinite loops can cause programs to fail. **TRUE** FALSE
4. Range function it makes a list of numbers. **TRUE** FALSE
5. If you place a loop inside a loop, it is called a nested IF statement . TRUE **FALSE**
6. an IF statement inside an IF Statement is called a nested loop. TRUE **FALSE**
7. functions like randint() are stored in modules which need to be loaded before you can use them(using command import). **TRUE** FALSE
8. Iteration is the process of repeating steps. **TRUE** FALSE
9. Loops is not iteration. TRUE **FALSE**
10. Sometimes an algorithm needs to repeat certain steps until told to stop or until a particular condition has been met. **TRUE** FALSE
11. When you are writing a program, you do not need to think about everything the user might do. TRUE **FALSE**
12. There are two main ways that algorithms and code design can be represented – pseudocode and flowcharts. **TRUE** FALSE
13. A Pseudocode is a diagram that shows a process, made up of boxes representing steps, decision, inputs and outputs. TRUE **FALSE**

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**SECTION 5 – Short Answers (3 marks each)**

1. Write down the three variables used in this block of code.

```
num1 = 1
num1 = num1 * 5
num2 = 3
num = num2 - 2
ans = num1 + num2
print(ans)
```

\_\_\_\_\_ num1 \_\_\_\_\_  
 \_\_\_\_\_ num2 \_\_\_\_\_  
 \_\_\_\_\_ ans \_\_\_\_\_

2. Write the output of following programs and the type of loop .

```
counter=10
while counter>0:
    print ("Value of a is",a)
    counter = counter-2
print ("Loop is Completed")
```

```
. Value of a is 5
. Value of a is 5
. Value of a is 5
. Value of a is 5
. Value of a is 5
. Loop is Completed
```

```
for i in range(1,6):
    for j in range (1,i+1):
        print (i)
    print("----")
```

```
..... 1 .....
..... 2 .....
..... 2 .....
..... 3 .....
..... 3 .....
..... 3 .....
..... 4 .....
..... 4 .....
..... 4 .....
..... 4 .....
..... 5 .....
..... 5 .....
..... 5 .....
..... 5 .....
..... 5 .....
```

```
num=2
for counter in range (1,6):
    print (num * counter)
```

```
..... 2 .....
..... 4 .....
..... 6 .....
..... 8 .....
..... 10 .....
```

Type:.. **while loop** .. Type:.. **Nested loop** Type:... **for loop**.....

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**SECTION 5 – Short Answers (3 marks each)**

3. Write pseudocode of program that ask the input of your name and store it in name variable and display Hello and name.

**OUTPUT 'What is your name?'**

**INPUT user inputs their name**

**STORE the user's input in the name variable**

**OUTPUT 'Hello' + name**

4. write the following instructions in correct order in the flowchart:

1. Read temperature of the weather.
2. If the temperature > 25
3. Print "warm"
4. Else print "cool"

