

**1. Answer the following Questions.**

i. **What is For command?**

Ans. The For command, also called the **counting loop**, is the command that keeps the count for the loop. After every loop, the number is increased by 1 by default.

ii. **Do you think loop is effective in programming?**

Ans. Yes, it is effective especially when we want to write or listen to something repeatedly or watch something many times.

iii. **Give an example of how loops are used in programming.**

Ans. Loops are used in programming when we want the computer to run a set of commands repeatedly till a certain condition is met.

iv. **The Boolean values are very simple. What is the advantage of using these values?**

Ans. The advantage of using Boolean **value** is that they show whether the given values are true or false. The system checks whether the relationship of a statement to the truth is **Yes** or **No**.

v. **Differentiate between the Repeat loop and the While loop?**

| Repeat loop  | While loop   |
|--|--|
| The Repeat loop is repeated as many as the given number. | The while loop is repeated till the Boolean value is true. |

vi. **When will you use the exit command instead of the break command?**

Ans. The **Exit** command is used when we want to finish executing the program while **break** command is used to get out of the loop.

**2. Fill in the blanks with correct words.**

- i. The **exit** command finishes the execution of program.
- ii. The For loop is **counting** a loop.
- iii. The result of a comparison operator is a **Boolean value.**
- iv. The **break** command stops the current loop.
- v. The curly braces are used to **group** a set of statements.

**3. True or False**

- i. The Learn command is used to create new commands. **True**
- ii. There are six comparing operators used in K Turtle. **True**
- iii. There are three Boolean values ---- true, false and cancel. **False**
- iv. The step size in a loop allows to add, subtract by the specified number. **True**
- v. Comments are the lines that start with a star symbol (\*). **False**

**4. Who am I?**

- i. I am a sentence which explains the logic of a program, in a program.

**Comment**

- ii. I am the operator which checks if two values are same.

**Equals**

- iii. I have only two values--- true and false.

**Boolean**

- iv. I am a set of statements that continues to execute till a condition is true.

**Loop**

- v. I am also called as counting loop.

**For loop**

**5. Choose the correct answer**

|  |                 |                  |              |
|--|-----------------|------------------|--------------|
| 1. The command to get out of the loop.                     |                 |                  |              |
| a) exit  | <b>b) break</b> | c) comment       | d) for       |
| 2. The command to get out of the program.                  |                 |                  |              |
| a) break   | <b>b) exit</b>  | c) repeat        | d) while     |
| 3. Which one is not a looping command?                     |                 |                  |              |
| a) while   | b) for          | c) repeat        | <b>d) if</b> |
| 4. The command repeated by giving a number after its name. |                 |                  |              |
| a) if  | b) while        | <b>c) repeat</b> | d) for       |
| 5. Which one is not a comparison operator?                 |                 |                  |              |
| <b>a) and</b>  | b) <            | c) >             | d) <=        |

**6. Rearrange the jumbled words.**

- |           |              |
|-----------|--------------|
| i. EPTS   | <u>STEP</u>  |
| ii. KEBAR | <u>BREAK</u> |
| iii. TIEX | <u>EXIT</u>  |
| iv. NLRAE | <u>LEARN</u> |
| v. TPNRI  | <u>PRINT</u> |

**7. Match the columns.**

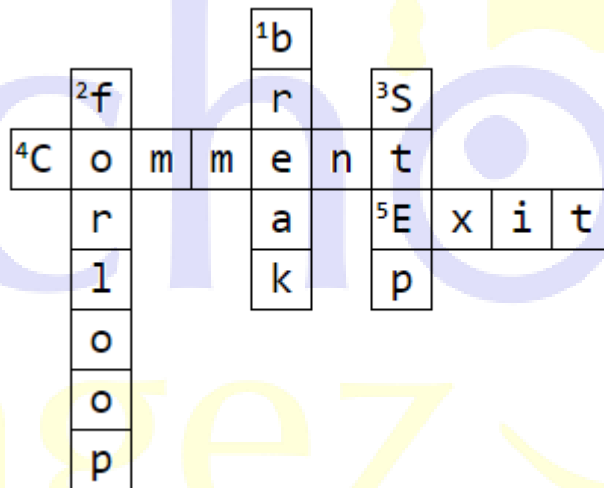
| Column A                 |  | Column B               |
|--------------------------|--|------------------------|
| Default step in for loop |  | Hash                   |
| !=                       |  | 1                      |
| #                        |  | Not equal              |
| fw                       |  | Get out of the program |
| exit                     |  | forward                |

**8. Word Search.**

|         |           |        |         |      |
|---------|-----------|--------|---------|------|
| Boolean | Variables | Repeat | Comment | loop |
|---------|-----------|--------|---------|------|

|   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|
| B | Q | U | L | O | O | P | Q | W | C |
| O | S | T | O | P | M | Q | T | K | O |
| O | V | F | R | E | N | E | C | U | M |
| L | Y | S | R | E | P | E | A | T | M |
| E | R | N | J | W | F | W | A | N | E |
| A | N | M | Q | V | E | T | C | M | N |
| N | M | Y | N | N | O | U | T | L | T |
| V | A | R | I | A | B | L | E | S | Z |

**9. Crosswords.**



**Across**

- 4. a line starts with # symbol
- 5. command that finishes the execution of program

**Down**

- 1. command that stops the current loop
- 2. loop in which number is increased by 1 by default
- 3. the computer increases the value of a variable

## 10. Comprehension.

Read the paragraph carefully and answer the following questions.

KTurtle makes programming easy and approachable. The programming language used in KTurtle is loosely based on Logo. KTurtle is named after 'the turtle' that plays a central role in the programming environment. Comments are sentences that explain the logic for using a certain command or describe what a command does. Comments are not executed, KTurtle simply ignores them when executing your program. Everything that follows on a # symbol is considered a comment in TurtleScript. There are only two boolean values: true and false named after **Gazni Boole**. These are called truth values. Sometimes they are also called: 'on' and 'off', 'yes' and 'no', 'one' and 'zero'. But in TurtleScript we call them, always, true and false.

**1. Give an example of comment in Kturtle.**

Ans. # This is a comment.

**2. What is the base of programming language that is used in Kturtle?**

Ans. It is based on logo.

**3. What are the different names of two values true and false?**

Ans. "yes" and "no" "on" and "off" "one" and "zero"

**4. What is another name for Boolean values?**

Ans. These are also called **Truth values**.

**5. Are the comments executed while running a program?**

Ans. No, comments are not executed.

11. Drag and drop.

Write the symbol and name of comparing operator used in Kturtle programming in relevant column.

|              |        |                        |            |              |
|--------------|--------|------------------------|------------|--------------|
| !=           | >=     | <                      | ==         | >            |
| smaller than | Equals | Greater than or Equals | Not Equals | Greater than |

Comparing operator

Symbol

Smaller than

<

Equals

==

Greater than or Equals

>=

Not Equals

!=

Greater than

>