

*) Explain the significance of python keyword and provide example of five keyword.

→ Python keywords are reserved words that have special meanings and purposes in the languages. They cannot be used as identifier.

(eg) :

for :

X = [1, 2, 3, 4]

for i in X:

print(i)

while :

i = 1

while i <= 5 :

print(i)

i += 1

print

print("pawwills")

~~ord(95)~~

ord('A')

chr(95)

2) Describe the rules for defining identifiers in python and provide an example.

→ Rules for defining identifiers in python:

- 1) Valid characters: identifiers can consist of alphanumeric characters (a-z, A-Z, 0-9) and underscore ('_')

2) Case Sensitivity: Python is case-sensitive,
i.e. My is different from my.

3) Reserved Keyword: Identifiers cannot be the same as Python keywords or reserved words.

4) Special Characters: Identifiers cannot be the same as Python keywords.

4) Special Characters: Identifiers cannot contain special characters like ! \$ @ etc.

5) Length: There is no limit on the length.

eg

my_var = 42
variable = 42
— variable = 42 } valid

2var = 42
my@var = 42
print = 10
\$ = 6 } invalid

3) What are comments in python, and why are they useful provide an example.

→ comments in python are text that the interpreter ignores. They're useful for explaining code and making it easier to understand.
Eg: `# Hello my self Abhishek Nandi`

4) Why is proper indentation important in python.

→ Proper indentation is crucial in python because it defines the structure of the code. Incorrect indentation can lead to syntax errors or changes the logic of the program.

5) What happens if indentation is incorrect in python?

→ Incorrect indentation can lead to syntax errors or changes the logic of the program.

6) Differentiate between expression and statement in python with examples.

→ In python, an expression is a piece of code that produces a value, while a statement is a complete line of code that performs some action. Expression can be part of statements.

Q9

- Expression: '2 + 3' (This returns 5 which is a value)
- statement: print("Hello ~~world~~ world!")