Rollno: 12

Q1 a) Tokens: a token is a single element of programming landwage the types of lovers are: identifiers, keywords operators etc. ex: False, +, - etc.

b) an escape sequence is an escape sequence is a sequence of characters that donot represent itself when used Ma character or string literal ex: 1/ 1/n/ 1/7

c) L ralue and r value a left value (I value) is an assignable object which may occul on the left side of the problem an realue is an expression that has a value that may appear on right Side of assignment 111/ -1

1\ab' → 3

'Ash's pen 1 -> 9

17" IT "e 1 -> 8

e) output = 12 48

t Syntax Errors

- → Does not produce an output
- -> Program stops running ance it reaches the error

ex: forgetting the Symbol

Logical Errors

- -> produces an undesired output
- -> program does not stop running in between.

ex: writing a code for finding the average as x+y/2 this will give the output

I+(4) because 11 is having higher preference.

a,

num 1 = float cinput ("enter first number") Num2 = float cinput c"enter second number")) num3 = float cinput ("enter third number")) num 4 = float cinput C"enter, fourthnumber ">>> nums = float cinput (" enter fifth number") avg = Chum1+num2+num3+num4+num 0)/5 Prod = hum1 * num2 * num3 * num4 * num6 print C"The product of the numbers is," prod, "and the average of the numbers is", avg?

Ь

b) line	correction
name = "john"	name = "John"
prints (name)	print Cname
name(1] = 'u'	name_1 = \u/
Prints (type chame)	print Ctype Cname)

c) _1 -> valid

_k@ -> invalid, special characters like cannot be used. 1_a -> invalid, identifiers cannot begin with 0-a digits text. cr - invalid, characters like '. ' are not allowed. if - invalid, if is a predifined keyword Switch -> ralid break - invalid, it sa predefined keyword new-rec - invalid, we cannot use '- (Chyphen)

d)

Implicit

when computing with two different numerical data types, the program automatically converts the values into the Same data type, which is a broader data type, int float float ->ex 50+439+01

Explicit

→ type conversation has to be carritten in the source code to be executed.

→ The person writing the code has to specifically type a line to change the data type

-> ex num1 = int c input ("entera number)

num1 = Str C num1)

here num1 will be converted from
integer to string

e).

= int Cinput C" type the value in inches">)

feet = inches //12

yard = feet // 3

= 94.0

feet = feet / 3

inches = inches 1/12

print c "The value in Yards is " yard, "yards,", feet, "feet," feet," inches, "inches.")

f. An operator is a token used to carry out arithmetic or logical computation.

associativity helps to find the order of the pperations. for example:

a+b/c

because the output a + (b)
because the operator (/) (divide) has a
higher precedence than the binary"+"operator.