Teacher_ Mohammad Hanif Gharanai

Homework _ The questions of chepter 2

Class_ first class of ISE

Name_ Mohammad Akrami

1. Which of the following are invallid identifiers in Pyton ?

correct one- a : Tolal sum

2. A_____ is a sequence of one or more characters used to provide a name for a given programe element .

correct one__ a. identifier

3. Identify the invalid identifier below.

correct one __ a. 2017 discont

4._____ are not allowed as part of an identifier .

correct one_ a. Spaces

5. Identifiers may contain letters and digit , but can not begin with a _____ .

The correct one _ b; Digit

6. Which is not a reserved keyword in Pyton ?

The correct one _ a. insert

7. Identify the invalid keyword below .

the correct one _ d. until

8. _____ is an identifier that has predefined meaning .

The correct one _ c. keyword

9. Bitwise _____ operator gives 1 if one of the bit is zero and the other is 1 .

The correct one _ c. xor

1

10. Guess the output of the following code.1>2 and 9 > 6

The correct one _ b.False

11. How many operands are there in the following arithmetic expression ?

6 * 35 +8 - 25

The correct one_ c. 5

12. How many binary operators are there in the following arithmetic expression ?

-- 6 + 10/ (23+56)

The correct one - c.3

13. Which operator returns the remainder of operands ?

The correct one - c. %

14. A_____ is a name that is associated with a value.

The correct one _ c. variable

15. Guess the output of the following expression . float (22//3+3/3)

The correct one _ b. 8.333

16. What value does the following expression evalute to ?

the correct one - I cant do it teacher I think it be should None of these

17. _____ and _____ are two ways to comment in pyton .

The correct one _ d. Single Line and Multiline comments

18. Single -line comments start with the _____ symbol.

The correct one _ a. *#

19. Multiline comments can be done by adding _____ on each end of the comment.

The correct one _ a. ""(triple quote)

20. Pyton programs get structured through _____ .

The correct one _ b. Indentation

21. In Pyton , Indentation is a _____ and not a matter of style.

The correct one _ a.   Requirement

22. which of the following is correct about Pyton ?

The correct one _ d. All of the above

23. Which of the following funcyion is used to read date from the keybord ?

The correct one_ c. input()

24. The one s complement of 60 is given by_____ ?

The correct one_ b. _61

25. THe operators is and is not are _____.

The correct one _ a. Identity Operators

26. In Pyton an identifier is _____.

c. Case Sensitive

27. Which of the following operator is trunction division operator ?

d. //

28. The expression that requires type conversion when evaluated is _____.

The correct one _ a. 4.7*6.3

29 . The operator that has the highest precedence is _____.

The correct one_ a. <<and>>

30. The expression that results in an error is _____.

The correct one _ a. int('10.8)

31. Which of the following expression is an example of type conversion ?

The correct one _ a. 4.0+float(3)

32. What is the output when the following statement is executed ?

 The correct one _ b. Output equialent to print 'new\nline'

33. What is the output when the following statement is executed ?

The correct one _ d. 42

34. What is the output of print (0.1+0.2==0.3)?

The correct one _ b. False

35. Which of the following is not a complex number?

The correct one _ c. 4+5i

The correct one _ d. 12

37. Incorrect Indentation results in _____.

The correct one___ a. indentation Error

38. The function that converts an integer to a string of one character whose ASCII code is same as the integer is _____.

THe correct one_ a.chr(x)

T

he Review question .

1. Explain different Operators in Pyton with example .

Answer::   Python has several types of operators : .**Arithmetic Operators: +,-,,/,%,//,***

Example: a + b

. Relational (comparison)

Operators : >,<, ==, !=, >=, <=

Example ; a   >   b

- *Logical Operators :* and , or, not

Example: `a .> 3 and b < 5`

- *Bitwise Operators :* &, |, ^, ~,

Example: `a & b`

- *Assignment Operators :* =, +=, -=, etc

Example: `a += 2`

- *Membership Operators :* in, not in

Example : `'x' in 'text'`

2. Define a variable. How to assign values to them ?

Answer : A **variable** is name used to store date .

Assignment is done using operator

Example : Pyton `x = 10    name = "Ali"`

3. Briefly explain binary left shift and binary right shift operators with examples .

Answer ; • **left shift (<<) :** Shifts bits to the left

Example : `4 << 1     8`

- **Right Shift (>>):** Shifts bits to the right .

Example : `8 >> 1     4`

4. Explain precedence and associativity of operators with examples.

Answer: **Precedence:** Which operato is evaluated first.

Associativity : Direction of evaluation (left-right or right-left).

Example 2 * 3 * 4   Right to left   Output: 512

5. Outline different assignment operators with examples.

answer.

= : x = 5

-= : x += 3 (x = x + 3)

*= : x -= 2

/= : x /=2

%= : x % = 3

6. ***Briefly explain how to read date from the keyboard.***

Answer.

Use input ( ) function.

Example:

Python

name = input ("Enter your Name: ")

7. ***Explain Type conversation in Python with example .***

Answer:

Type conversation is changing one date type to another .

Python

x = int ("5")   # string to int

y = str (10)   # int to string

8.Write a short note types in python .

Answer.

Python has several date types :

- *int : 5*

- *float: 5.2*

- *str: "Hello"*

- *bool: True / False*

- *LIst : [1, 2, 3]*

- *Dict : { " A " }*

9. Write a program to read two integers and perform arithmetic operations on them (addition , subtraction , multipliction and division).

print ("Sum :", a + b)

print ("Subtraction : ", a - b)

*print (" Multiplication : ",   a   *   B)*

print (" Division : "   a / b if   b   !=   0 else " Underfind ")

print (" Average :", (a   +   b)   / 2)

10. Write a program to read the the marks of three subjects and find the average of them.

Answer.

python

m1 = float (input ("Enter mark 1 : "))

m2 = Float 9 input (" Enter mark 2 : '))

m3 = float (input ("Enter Mark 3 : "))

avg = (m1 + m2 + m3) / 3

print (average mark : " , avg)

11. Write a program to convert kilogram into pound.

Answer.

python

kg = float (input (" Enter weight in kilograms : "))

Pound = kg * 2 . 20462

print (" Wieght in pounds : " pound)

12 . Surface area of a prism can be calculated if the lenghts of the three sides are knwon . Write a program that takes the sides as input (read it as integer) and prints the surface area of the prism (Surface Area = 2ab + 2bc + 2ca).

Answer.

Python

a = int (input (Enter side b : "))

b = int (input ("Enter side b : "))

c = int (input (" Enter side c : "))

area = 2 * (a*b + b*c + a*c)

print (" Surface Area : ", area)

13. A plane travels 395,000 meters in 9000 second . Write a program to findthe speed of the plane (Speed = Distance / Time).

Answer .

Python

distance = 395000 # meters

time = 9000 # seconds

speed = distance / time print ("Speed of plane :", speed , "m/s")

14. You need to empty out the rectangular swimming pool which is 12 meters long , 7 meters wide and 2 meter depth .You have a pump which can move 17 cubic meter of water in an hour . Write a program to find how long it will take to empty your pool ? (volume = 1 *w *h, and flow = volume /time)

answer.

pyton

length = 12

width = 7

depth = 2

pump_rate = 17 # cubic meters /hour

volume = length * width * depth # m^3

time_to_empty = volume / pump _ rate

print ("Time to empty pool : ", time _ to_empty, "hours")

15. write a programe to convert tempreture from centigrade (read it as float value) to fahrenheit .

Answer.

Python c = float (input ("Enter tempreture in Celsius: ")

f = (c 9 /5) + 32

print ("Tempreture in Fahrenhiet :",f)

16. Write a program that calculates the number of second in a day .

Python

second = 24 * 60* 60

Print (" Second in a day :" second)

17. A car start from a stoplight and is traveling with a velocity of 10 m/sec east in 20 sec .write a program to find te acceleration of the car .

Answer.

 I cant do it and I didnt indrastand it