Ministry of Higher Education

Kabul University

Faculty of Information Technology and Telecommunications

Department of Information Science and Engineering (ISE)

Second home work of Introduction to Python Programming: The *second* chapter exercise…

Multiple choice question:

1. Which of the following are invalid identifiers in Python?

   A) Total B) Error C) Error_count D) None of these

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

   A) Identifiers B) Variable C) String D) Character

3. Identify the invalid identifier below.

   A) _2017discount B) Profit C) Total_discount C) Total discount

4. _____ are not allowed as part of identifier.

   A) Space B) Numbers C) Underscore D) All of these

5. Identifiers may contain letters and digits, but cannot begin with a _____.

   A) Character B) Digit C) Underscore D) Special Symbols

6. Which is not reserved keyword inPython?

   A) Insert B) Except C) Import D) Yield

7. Identify the invalid keyword below.

   A) And B)As C) While D) Until

8. _____ is an identifier that has predefined meaning.

   A) Variable B) Identifier C) Keyword C) None of these

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

   A) Or B) And C) Xor D) Not

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

    A) True B) False C) Machine Dependent D) Error

11. How many binary operators are there in the following arithmetic expression? 6*35 + 8 – 25

    A) 4 B) 3 C) 5 D) 8

12. How many binary operators are there in the following arithmetic expression? – 6 + 10 / (23 + 56)

    A) 2 B) 3 C) 4 D) 5

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13. Which operators returns the remainders of the operands?

A) / B) // C) % D) **

14. A _____ is a name that is associated with a value.

A) Identifier B) Keyword C) Variable D) None of these

15. Guess the output of the following expression evaluate to? Float(22//3+3/3)

A) 8 B) 8.0 C) -8.3 D) 8.333

16. What value does the following expression evaluate to? 2 + 9 * ((3 * 12) – 8) / 10

A) 27 B) 27.2 C) 30.8 D) None of these

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

A) Single and Multiple comments B) Single line and Double line comments

C) One and Many line comments D) Single line and Multiple comments

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

A) *# B) # C) * D) &

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

A) ‘’’ ‘’’(triple quote) B) #(Hash) C) $(dollar) D) %(modulus)

20. Python program get structured through _____ .

A) Alignment B) Indentation c) Justification D) None

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

A) Requirement B) Refinement C) Not required D) Not Refind

22. Which of the following is correct about Python?

A) Python is a high-level, interpreted, interactive and object-oriented language.

B) Python is designed to be highly readable.

C) It used English keyword frequently and has fewer syntactical constructions.

D) All of above

23. Which of the following function is used to read date from the keyword?

A) Function() B) Str() C) Input() D) Print()

24. The one’s complement of 60 is given by _____ .

A) -60 B) -61 C) -59 D) +59

25. The operators is and is not are _____.

A) Identify Operators B) Comparison C) Membership D) Unary Operators

26. In Python an identifier is _____.

A) Machine dependent B) Keyword D) Case sensitive D) Constant

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

A) / B) % C) | D) //

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

A) 4.7 * 6.3 B) 1.7 % 2 C) 3.4 + 4.6 D) 7.9 * 6.3

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

A) <<And>> B) ** C) + D) %

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

A) Int('10.8') B) Float(10) C) Int(10) D) Float(10)

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

A) 4.0 + float(3) B) 5.3 + 6.3 C) 5.0 + 3 D) 3 + 7

32. What is the output when the following statement is executed? >>print('new' 'line')

A) Error B) Output equivalent to print 'new\nline' C) new line D) newline

33. What is the output when the following statement is executed? Print(0XD + 0Xe + 0Xf)

A) Error B) 0XD0XE0XF C) 0X22 D) 42

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

A) True B) False C) Error D) Machine dependent

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

A) 1=4+5j B) 1=complex(4.5) C) 1=4 + 5i D) 1=4+5j

36. Guess the output of the expression. X=15 Y=12 X & Y

A) 1101 B) b1101 C) 0b1101 D) 12

37. Incorrect Indentation result in _____.

A) Indentation B) NameError C) TypeError D) SyntaxError

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

A) Chr(x) B) Ord(x) C) Eval(x) D) Input(x)

Review Questions: …

1. Explain different operators in Python with example.
2. Define a variable. How to assign value to them?
3. Briefly explain binary left shift and binary right shift operators with examples.
4. Explain precedence and associativity of operators with examples.
5. Outline different assignment operator with examples.
6. Briefly explain how to read data from the keyword.
7. Explain Type conversion in Python with examples.
8. Write a short note on data types in Python.
9. Write a program to read two integer and perform arithmetic operations on them (addition, subtraction, multiplication and division).
10. Write a program to read the marks of three subject and find the average of them.
11. Write a program to convert kilogram into pound.

12. Surface area of prism can be calculated if the lengths of the three sides are known. Write a program that takes the sides as input(Surface Area = 2ab + 2bc + 2ca).
13. A plane travels 395000 meters in 9000 seconds. Write a program to find the speed of the plane (Speed = Distance / Time).
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 meters of water in an hour. Write a program to find how long it will take to empty your pool? (Volume = 1*h, and flow = volume/time).
15. Write a program to convert temperature from centigrade (read it as float value) to Fahrenheit.
16. Write a program that calculates the numbers of second in a day.
17. A car start from a stoplight and is traveling with a velocity of 10 m/s east in 20 seconds. Write a program to find the acceleration of the car. (acc=(v_{final}-$v_{initial}$)/time).