Q1. Why do we call Python as a general purpose and high-level programming language?

We can use python in different domain like AI,ML,Web Devlopment,Big data and python is easily understandable and straight forward so anyone can learn and code it that’s why python is general purpose and high-level programming language.

Q2. Why is Python called a dynamically typed language?

Ans- In python we don’t have to declare datatype of variable like C++,Java

We can directly use variable without datatype

Q3. List some pros and cons of Python programming language?

Ans – Pros – Beginner friendly, Flexible and scalable,easy to read & learn

Cons –

Q4. In what all domains can we use Python?

Ans- Web Development,Data Science,Data Analysis,Big data

Q5. What are variable and how can we declare them?

Ans-Variable is only name which used for storing values

Eg. Name = Ganesh,Age = 29

Q6. How can we take an input from the user in Python?

Ans- We can take input from user by using input() function

Q7. What is the default datatype of the value that has been taken as an input using input() function?

Ans-Default value of input() is String.

Q8. What is type casting?

Ans-Type casting means changing data type to another data type by using

Q9. Can we take more than one input from the user using single input() function? If yes, how? If no, why?

Ans – No we can’t take more than 1 input from Input() function because input function takes only one argument

Q10. What are keywords?

Ans- Keywords are reserved words for specific purpose we can’t use them

Q11. Can we use keywords as a variable? Support your answer with reason.

Ans- No, because keywords are reserved for specific purpose for example -while,true,false,from,break

Q12. What is indentation? What's the use of indentation in Python?

Ans-Indentation means whitespaces before code so in python indentation is important without this we can face indentation error because python treat indentate code as block of code

Q13. How can we throw some output in Python?

Ans- By using print function

Q14. What are operators in Python?

Ans-Operators are use to perform some operations on variable like logical and arithmetic operations.

Q15. What is difference between / and // operators?

Ans- Both operators can use for division but //(Floor Division) operator round result to nearest number

Q16. Write a code that gives following as an output.

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iNeuroniNeuroniNeuroniNeuron

```

Ans - print("iNeuroniNeuroniNeuroniNeuron")

Q17. Write a code to take a number as an input from the user and check if the number is odd or even.

Ans – number = int(input("enter number"))

if number % 2 == 0:

    print("number is even")

elif number % 2 == 1:

    print("number is odd")

Q18. What are boolean operator?

Ans- To check whether the condition is true or false we use Boolean operator

Q19. What will the output of the following?

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1 or 0 -> o/p - 1

0 and 0 -> o/p - 0

True and False and True

Ans - False

1 or 0 or 0 -> o/p - 1

```

Q20. What are conditional statements in Python?

Ans- To check specific condition to be true or false we use conditional statement in python

Q21. What is use of 'if', 'elif' and 'else' keywords?

Ans- We use 'if', 'elif' and 'else' as conditional statement in python to check specific condition.

Q22. Write a code to take the age of person as an input and if age >= 18 display "I can vote". If age is < 18 display "I can't vote".

Ans – age = int(input("Enter your age"))

if age >=18:

    print("i can vote")

elif age < 18 :

    print("i can't vote")

Q23. Write a code that displays the sum of all the even numbers from the given list.

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numbers = [12, 75, 150, 180, 145, 525, 50]

```

Ans-

List will be covered in next lecture

Q24. Write a code to take 3 numbers as an input from the user and display the greatest no as output.

Ans - Number1 = int(input("Enter number"))

Number2 = int(input("Enter number"))

Number3 = int(input("Enter number"))

if Number1>Number2 and Number1>Number3:

    print(Number1)

elif Number2>Number1 and Number2>Number3:

    print(Number2)

else:

    print(Number3)

Q25. Write a program to display only those numbers from a list that satisfy the following conditions

Ans-

List will be covered in next lecture

- The number must be divisible by five

- If the number is greater than 150, then skip it and move to the next number

- If the number is greater than 500, then stop the loop

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numbers = [12, 75, 150, 180, 145, 525, 50]

```