##Assignment Part-1

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

ANSWER:-Python is an object oriented is based around objects ,and easy for to understand its human ,that’s why ,its called as a general purpose and high-level programming language.

Q2. Why is Python called a dynamically typed language?

ANSWER:-Python have not any problem even if it state the kind of variable in the run time, also take care of memory management so its called dynamic typing language.

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

ANSWER:-Pros of python:-1.large community

2.highly scalable

3.portable language

Cons of python:-1.slower than complied language

2.its dynamically language

3.easy to work environment language.

Q4. In what all domains can we use Python?

ANSWER:-Users can allows to used multiple domain from 1.artificial intelligence

2.machine learning

3.games

4.web development.

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

ANSWER:-Python has no command for declaring variable ,a variable is created assigned some value ,we can declare with integer value.

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

ANSWER:-We can take an input as used input() from the user in python.

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

ANSWER:-String is the default datatype of the value that has been taken as an input using input().

Q8. What is type casting?

ANSWER:-It has two type of casting:-1.data type,2.data structure.

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

ANSWER:-Yes ,you can take more than one input from user single input() function,

Q10. What are keywords?

ANSWER:-The keywords are some predefined and received word in python that have special meanings.

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

ANSWER:-We can used as a variable name ,function name or any other identifier.

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

ANSWER:-Indentation is defined the spaces at the beginning of a cade line ,indentation is very important and uses in python as a indicate a block of code.

Q13. How can we throw some output in Python?

ANSWER:-We can throw some output in python as a used function print() ,to display objects to a console.

Q14. What are operators in Python?

ANSWER:-The operators are used in python is 1.+ for Addition a-b

2.- for Subtraction a-b

3.\* for multiplication a\*b

4./ for division a/b

5.% for modulo a% b

6.// for floor division a//b

7.\*\* for power calculation a\*\*b.

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

ANSWER:-Division operators can perform in two ways. the first way is float division(“/”) and second is floor division(“//”).

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

ANSWER:-#python output

Print (‘python is good’)

#output : python is good

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

ANSWER:- #python program to check if the input number is odd or even.

#a number is even if division by 2 gives a reminder 3.

#if the remainder is 2 , it is an odd number.

Q18. What are boolean operator?

ANSWER:- There are three Boolean operator in python:and,or,andnot.

Q19. What will the output of the following?

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1 or 0

ANSWER:-true

0 and 0

ANSWER:-false

True and False and True

1 or 0 or 0

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ANSWER:-true

Q20. What are conditional statements in Python?

ANSWER:-Python has three conditional statement is 1.if statement

2.if-else statement

3.if-elif-else statement.

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

ANSWER:-Python uses the ‘if’ keyword is used to implement decision control like the condition are true or false,’elif’ keyword is used for specified condition evaluates as true,’else’ keywords used for optionally to define an alternative statement if condition evaluated false.

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".

ANSWER:-

# the person is available for vote or not

Age=int(input(“enter your age= “))

#if-else statement

If(age>=18):

Print(“eligible to vote”)

Elif(age<18>

Else

Print (“not eligible to vote”)

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

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

ANSWER:-#to display the sum of all the even numbers

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

print(“enter element of the list:, “)

for i in ranges(7):

val=int(input())

num.append(val)

sum=0

for i in range(7):

if num[i]%2==0

sum=sum+num[i]

print(/sum of even numbers list”,sum)

Q24. Write a code to take 3 numbers as an input from the user and display the greatest as output.

ANSWER:-

#to display numbers as greatest as output

a=int(input(‘enter first number:’))

b= int(input(‘enter second number:’))

c= int(input(‘enter third number:’))

largest =0

if a>b and a>c:

largest=a

elif b>c:

largest=b

else largest=c:

print(largest,”is the largest of three numbers.”)

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

ANSWER:-

- The number must be divisible by five

#display to divisible number by five

number%5==0

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

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

#numbers is greater than 150 than skip it and move to next number

-int(12,75,150,180,145,525,50)

Print(“number=:”, int)

If num4>=num3

Print(“num4is greater than num3 :”,num4>=num3)