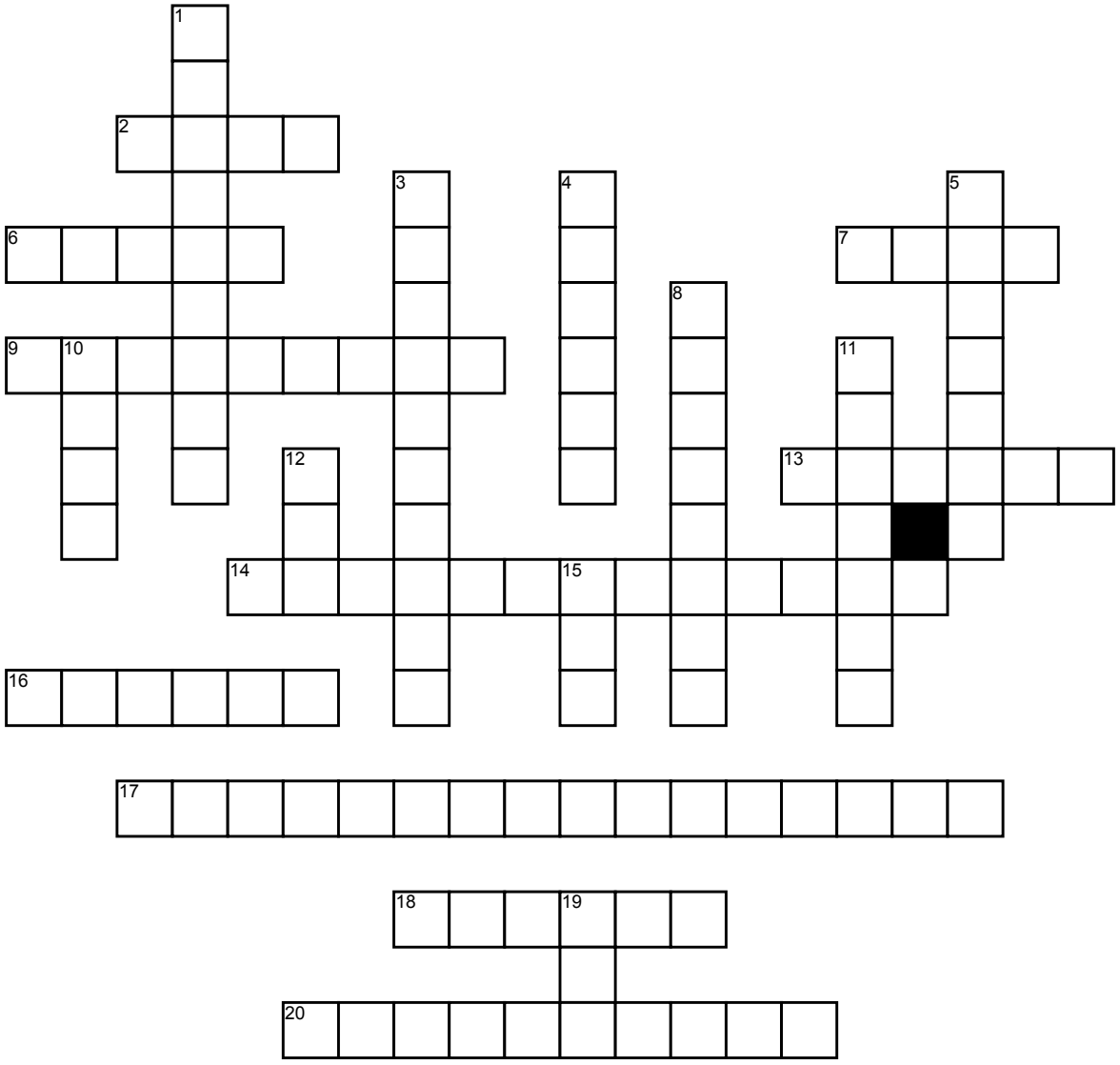
Problem Solving



Across

2. Work out the output of the following code: Total=0 >>> for x in range (3): for y in range(3,2,-1): total=total+y print(total)

6. How many different types of loops are there in python?

7. Is the following Boolean expression true or false? Value = 10 1<=value and value<=100

9. A finite sequence of steps written for an agent (e.g, computer) to solve the problem.

13. Work out the output of the following code: Grade=45 if grade>=50: print("Passed") else: print("failed") Answer: Failed

14. Here's the definition, what's the word:

16. What error has occurred with this coding? Num=6*[0] for count in range(len(num)): num[count]=count+1 print(num)

17. What is the value of the shopping list [2]? Shoppinglists=[“Cones”,”Cream”,”Icing”] , [“Coke Cola”,”Pepsi”] , [“Cake”,”Bread”],[“Beans”,”Eggs”,”Sausages”]

18. What type of error has occurred? percent = 85 if percent > 90: print("You got an A!") if percent > 80: print("You got a B!") if (percent > 70): print("You got a C!") if (percent > 60): print("You got a D!") Else: 19. print("You got an F!")

20. What is the programming tool which uses English-like phrases to outline the program?

Down

1. What loop is this? The …….. statement provides a looping mechanism that executes statements repeatedly for as long as some condition remains true

3. Work out the output of the following code: total=0 >>> for a in range(7): for b in range (7,4,-2): total=total+b print(total)

4. What error does this code provide: import math def printCircleArea(radius) area=math.pi*radius*radius print("Area of the circle is",area) printCircleArea(16) r=30 printCircleArea(r)

5. Lists in python are “……..” – we can change an element of a list using the index operator

8. 14. What flowchart symbol means: Used to connect symbols and indicate the flow of logic

10. Kind of collection that can hold many values in a single variable

11. Name a design structure shape which is used to represent an action in an flowchat

12. Write a program to calculate the factorial of a number: number=input("Enter a number") fac=1 if number==0: print(1) else: while number>=1: fac=fac*number number=number-1 print(fac)

15. Work out the output of the following code: L = [2,4,1,3,5] >>> m=l[0] >>> for num in L: if num<m: m=num print(m)

19. What is the output of the following code? X=7 Y=5 Print(x-y)