

Year 9 Knowledge Organiser - Computer Science

Sample Python Program

```
import random

houses=["Slytherin", "Hufflepuff", "Gryffindor", "Ravenclaw"]

word=input("Write the word that best describes you: Intellegent, Loyal, Brave,
Ambitious or Unsure: ")

if word=="Intellegent":
    print("Your house is.....RAVENCLAW!")

elif word=="Loyal":
    print("Your house is.....HUFFLEPUFF!")

elif word=="Brave":
    print("Your house is.....GRYFFINDOR!")

elif word=="Ambitious":
    print("Your house is.....SLYTHERIN")

else:
    print("You are unsure, so your house is ", random.choice(houses))
```

Key Terms Table

Key Term	Definition	Example
String	Text data	word = "Hello"
Integer	Whole number	score = 10
Float	Decimal number	pi = 3.14
List	Collection of items	list = ["Car", "Van", "Motorcycle"]
Random	Random selection	random.choice(list)
Input	User data entry	name = input("Enter name")
Output (print)	Display result	print("Hello")
Selection (if, elif, else)	Decision making	if score > 10: print('Pass')
Iteration (for, while loop)	Repeat actions	for i in range(5): print(i)
Indentation	Code structure	print('Indented')

Quiz Section

1. What data type is used to store decimal numbers?
2. What keyword is used to get input from the user?
3. What structure is used to repeat actions?
4. What does 'if' represent in Python?
5. What is the purpose of indentation in Python?

Notes Section

Write your notes below: