

HOGWARTS HOUSE _ IBCSE PROJECT

Rudrakshi Wangoo L25i

Target grade level

Target assessment level of this work is 3.

Specification:

- **What program does**

This program is essentially a quiz, people input their specific preferences, and my program tells them which [Hogwarts house](#) they suit best. The data I fed it to analyse which house suits the person best, is from my own knowledge of the characteristics of each hogwarts house.

- **What problem it solves**

People that really wish to experience the hogwarts universe, get to use this quiz as a little excerpt of experience into that world. I have wished to make this ever since I was small and read the Harry Potter series.

- **What the user is supposed to input and get as output**

The user must input one of the alphabets a, b, c or d. Incase the input is accidentally a capital letter, the list for “answers” append a lowercase edit, which turns all inputs into lowercase just incase. The backend output to the program is that there is a function that saves and returns the users chosen alphabets. Each alphabet when picked once, adds +1 to the “account” of each variable of the hogwarts house. Then, another function sees which house variable has ended up with the highest amount of points. Finally, the output for the user is that these final highest scores function is returned and presents to the user which house they belong to.

Test case with typical input screenshot from VS code after running program

Example:

The screenshot shows a Microsoft Visual Studio Code interface. The title bar reads "Q cs homeworks pre-ib". The left sidebar has icons for File, Edit, Selection, View, etc., and a search bar. The main area has tabs for PROBLEMS, OUTPUT, DEBUG CONSOLE, TERMINAL (which is selected), and PORTS. The terminal window displays the following text:

```
HKIOPEVSYK+rudrakshi.wangoo@Lukio-PF5FEKXT MINGW64 ~/OneDrive - Suomalaisen Yhteiskoulun Osakeyhtiö/cs homeworks pre-ib (main)
$ source "C:/Users/rudrakshi.wangoo/OneDrive - Suomalaisen Yhteiskoulun Osakeyhtiö/cs homeworks pre-ib/.venv/Scripts/activate"
(.venv)
HKIOPEVSYK+rudrakshi.wangoo@Lukio-PF5FEKXT MINGW64 ~/OneDrive - Suomalaisen Yhteiskoulun Osakeyhtiö/cs homeworks pre-ib (main)
$ "C:/Users/rudrakshi.wangoo/OneDrive - Suomalaisen Yhteiskoulun Osakeyhtiö/cs homeworks pre-ib/.venv/Scripts/python.exe" "c:/Users/rudrakshi.wangoo/Downloads/# Hogwarts house sorting.py"

● Welcome to rудis sorting hat quiz, i hope u are happy with your results!
Question 1: What is your favourite quality? a) bravery b) intelligence c) loyalty d) ambition
choice: a
Question 2: What is your favorite season? a) Summer b) Spring c) Autumn d) Winter
Your choice: d
Question 3: Which place would you want to be in right now? a) India! b) France oolala c) Romaniaaaaa d) My house.
Your choice: b
Question 4: What would you do in your free time? a) yoga in the hills b) read a book by the fireplace c) party with my friends! d) sleep.
Your choice: c
Question 5: Are you a cat or dog person? a) dog b) cat c) dog and cat d) snake!!!
Your choice: a

The Sorting Hat has decided...
u are a Gryffindor!
(.venv)
HKIOPEVSYK+rudrakshi.wangoo@Lukio-PF5FEKXT MINGW64 ~/OneDrive - Suomalaisen Yhteiskoulun Osakeyhtiö/cs homeworks pre-ib (main)
$
```

Resource management

Stuff about the quiz

1. It has 5 questions so it is inevitable to get one house, the user can't just get 1 point for each account and make the program redundant
2. The reason functions 2 and 3 for example are not combined are honestly purely for the code to be more organized and less messy, as then function 2 would have to return 2 different things with more instructions