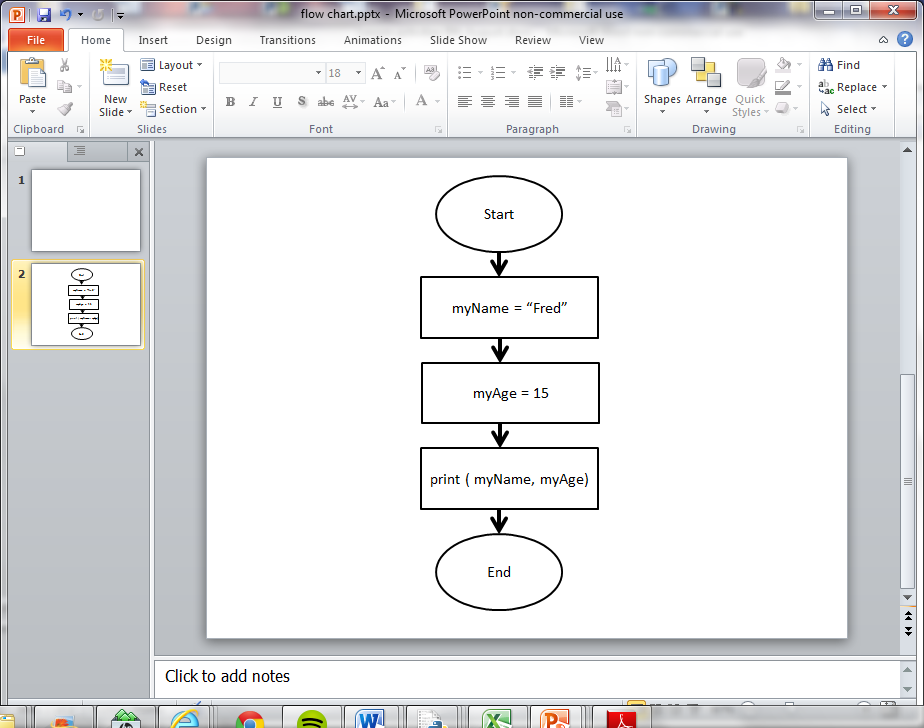
**Activity 9.3**

Study the flowchart.



Write a program to implement this flowchart.



**Activity 9.2**

Study the program.

# password checking

password=input("Please enter password: ")

newPassword=input("Please re-enter password: ")

if password == newPassword:

print("Access granted")

else:

print("Access denied")

Draw the flowchart for this program.

Start 🡪 # password checking 🡪 password=input(“Please enter password:”) 🡪 newPassword=input("Please re-enter password: ")🡪 if password == newPassword:

🡪 print("Access granted")

else:

print("Access denied") 🡪 end.

password=input(“Please enter password:”)

newPassword=input("Please re-enter password: ")

if password == newPassword:

print("Access granted")

else:

print("Access denied")

**Activity 8.1**

**Using elif**

This program simulates a fortune cookie. A random number is used to decide your “fortune”.

Copy and run this program.

import random

answer= random.randint(1,6)

if answer == 1:

print ("You will meet a stranger")

if answer == 2:

print ("Your favourite colour is blue")

if answer == 3:

print ("you are sooo...")

if answer == 4:

print ("finished")

if answer == 5:

print ("You enjoy?")

if answer == 6:

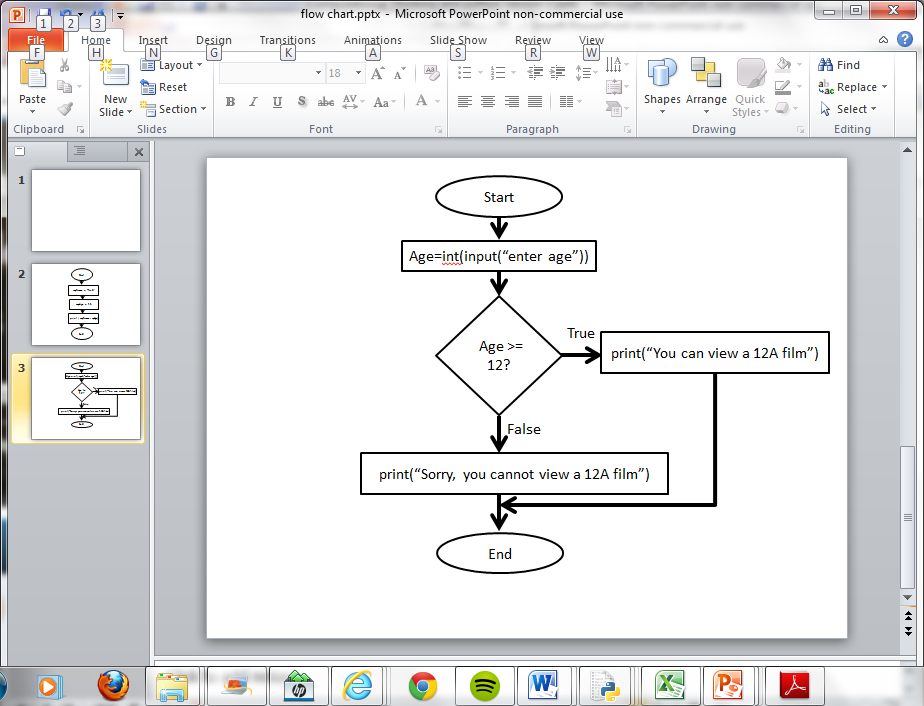
print ("How are you?")

The program is not complete. Finish the program by including your own “fortunes” for the random numbers 4, 5 and 6.

random.randint(1,6) is a function that returns a random number between 1 and 6. The “import random” command allows the program to access the random.randint() function.

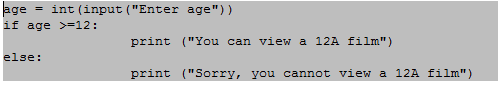
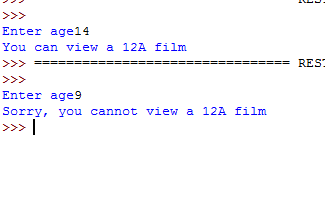
**Activity 9.4**

Study the flowchart.



What does this flowchart do?

Write the program to implement this flowchart.



**Activity 9.9**

Write a program that asks you to enter a year and tells you which key stage it is.

|  |  |
| --- | --- |
| **Key Stage** | **Year Group** |
| Key stage 1 | Years 1 and 2 |
| Key stage 2 | Years 3, 4, 5 and 6 |
| Key stage 3 | Years 7, 8 and 9 |
| Key stage 4 | Years 10 and 11 |

**Activity 10.1**

**Strings**

Write the index position for each character in the string.

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| H | e | l | l | o |  | w | o | r | l | d | ! |
| 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 |

What character is at index 3? L

What character is at index 5? [SPACE] (“ “; (Space))

What character is at index 0? H

What character is at index 11? !

How many characters are there in this string? 12