**Assignment-2**

**WAP a program in c to take input string :**

1. Read the input until there is space.
2. Read input till it is lower case vowel.(test case- Hello)
3. Read the input only if it is a vowel
4. Take input don't take lower case.
5. Decide a range take any input which is not given in range.

**Explanation:**

The algorithm to solve this question is given below:

1. Include the necessary header file <stdio.h>.

2. Define the main function int main().

3. Declare a character array s of size 100.

4. Use printf to prompt the user to enter a string.

5. Use scanf with a maximum width of 99 to read the string into array s, preventing buffer overflow.

6. Use printf to display the entered string.

7. Repeat steps 4-6 for each input condition (string without vowels, string with only vowels, string with only uppercase letters).

8. Use the correct format specifiers in scanf statements to match the input conditions.

9. Return 0 from the main function to indicate successful execution.

10. Compile and run the program to test the input and output.

By following these steps, the program reads input from the user and displays the entered string, handling different input conditions correctly.

**Code:**

#include<stdio.h>

int main()

{

char s[100];

printf()

//CONDITION-1

 scanf("%s", s);

//CONDITION-2

scanf("%[^a, ^e, ^i, ^o, ^u]s",s);

// CONDITION-3

scanf("%[A, E, I,O,U,a,e,i,o,u]s", s);

printf("%s", s);

//CONDITION -4

scanf("%[A-Z]s",s);

return 0;

}