String Functions Assignment:Mandatory

- 1. WAP to prompt and read a line of text with words separated by space. Tokenise and extract the words. Display them. Imperent the following functions for this.
 - a. int tokenise(char *arr); //tokenise and display tokens , return number of tokens to the caller

[Use strtok() to tokenise]

```
#include <stdio.h>
#include <stdib.h>
#include <stdib.h>
#define MAX 50
int tokenise(char *);
int main() {
    char str[MAX];
    char arr[20];
    int i=0,c;
    fgets(str,MAX,stdin);
    str[strlen(str)-1]='\0';
    c=tokenise(str);
    printf("count :%d\n",c);

    return 0;
}
int tokenise(char *str)
{
    int c;
    char *ptr;

    ptr=strtok(str, " ");
    fputs(ptr,stdout);
    c=1;
    printf("\n");
    while((ptr=strtok(NULL, " "))!=NULL)
    {
        fputs(ptr,stdout);
        printf("\n");
        c++;
    }

    return c;
}
```

```
hello world welcome
hello
world
welcome
count :3
```

2. Implement your own strncat() which shall concatenate n characters from src to dest.

char *strncat(char *dest, const char *src, size_t n)

```
#include <stdio.h>
char *strncati(char *, char *,int);
int main() {
    char s[30]="pooja";
    char d[]="bevara";
    char *sl=s;
    char *s2=d;
    printf("hello\n");
    strncati(s1,s2,2);
    printf("cat: %s",s1);
    return 0;
}
char *strncati(char *s1,char *s2,int n)
{
    while (*s1 !='\0')
        s1++;
        int i=0;
    while (i<n)
    {
        *s1=*s2;
        s1++;
        s2++;
        i++;
        }
    s1='\0';

    //printf("%s",s2);
    return s1;
}</pre>
```

3. WAP to

cat: poojabe

- a. Search for and replace the vowel characters (upper and lower case) with "ay" in a word read from user. Consider a maximum word length of 40 characters.
- b. Identify the test inputs to be used
- c. Display updated string

```
Enter a word : Hello
Updated word: Hayllay
```

```
include <string.h>
finclude <ctipn.h>
finclude <ctipn.h>

fdefine MAX_LEN 40

void replace_vowels_with_ay(char *str) {
   int i = "0;
   char temp[MAX_LEN * 2];

int j = 0;
   while (str[i] != '\0') {
      if (str[i] == '\0' || str[i] == '\
```