COMPTE RENDU TP6
ALAA BARKA

EX 1 :

```c
#include <stdio.h>
int main()
{

    char *days[8] =
        {
            "Day Doesn't exist",
            "Monday", "Tuesday", "Wednesday", "Thursday", "Friday",
"Saturday", "Sunday"};

    int day;
    printf("Enter Day Number \n");
    scanf("%d", &day);
    if (day >= 1 && day <= 7)
    {
        printf("%s", days[day]);
    }
    else
    {
        printf("%s", days[0]);
    }
    return 0;
}
```

```
C:\Users\Machiavelli\Desktop\UnivCodes\TP\TP6>gcc ex1.c -o ex && ex.exe
Enter Day Number
5
Friday
C:\Users\Machiavelli\Desktop\UnivCodes\TP\TP6>
```

```
C:\Users\Machiavelli\Desktop\UnivCodes\TP\TP6>gcc ex1.c -o ex && ex.exe
Enter Day Number
12
Day Doesn't exist
```

Ex 2 :

```c
#include <stdio.h>
#include <string.h>

int main()
{

    char name[100];
    printf("Enter Your name ! \n");
    gets(name);
    int i, count = 0;
    for (i = 0; i < strlen(name); i++)
    {
        if (name[i] != ' ')
        {
            count++;
        }
    }

    printf("Your name is %s and the length of your name is ! %d", name,
count);
    return 0;
}
```

```
C:\Users\Machiavelli\Desktop\UnivCodes\TP\TP6>gcc ex2.c -o ex && ex.exe
Enter Your name !
Alaa Barka
Your name is Alaa Barka and the length of your name is ! 9
C:\Users\Machiavelli\Desktop\UnivCodes\TP\TP6>
```

EX 3

```c
#include <stdio.h>
#include <string.h>


int main()
```

```c
{

    // read the word

    char line[200];
    char arr[20][20];
    int index = 0, j = 0;
    int count;
    do
    {
        count = 0;
        printf("Enter The Sentence ");
        gets(line);
        for (int i = 0; i < strlen(line); i++)
        {
            // counting for spaces
            if (line[i] == ' ')
                ++count;
        }
    } while (count != 4);

    for (int i = 0; i < strlen(line); i++)
    {
        if (line[i] == ' ' || line[i] == '\0')
        {
            arr[index][j] = '\0';
            index++;
            j = 0;
        }
        else
        {
            arr[index][j] = line[i];
            j++;
        }
    }

    for (int i = 0; i <= index; i++)
```

```c
    {
        printf("%s \n", arr[i]);
    }
    return 0;
}
```

```
C:\Users\Machiavelli\Desktop\UnivCodes\TP\TP6>gcc ex3.c -o ex && ex.exe
Enter The Sentence hello world my name is alaa
Enter The Sentence hello world im alaa barka
hello
world
im
alaa
barka

C:\Users\Machiavelli\Desktop\UnivCodes\TP\TP6>
```

EX4 :

```c
#include <stdio.h>
#include <string.h>
int main()
{
    char verb[20];
    int check = 0;
    do
    {

        printf("Enter the regular verb (in french )! \n");
        gets(verb);

        check = verb[strlen(verb) - 2] == 'e' && verb[strlen(verb) - 1]
== 'r';


    }

    while (!check);
```

```c
    char v[6][3] = {
        "e",
        "es",
        "e",
        "ons",
        "ez",
        "ent"};


    for (int i = 0; i < 6; i++)
    {
        printf("\n");
        for (int j = 0; j < strlen(verb) - 2; j++)
        {
            printf("%c", verb[j]);
        }
        printf("%s", v[i]);
    }
    return 0;
}
```

```
C:\Users\Machiavelli\Desktop\UnivCodes\TP\TP6>gcc ex4.c -o ex && ex.exe
Enter the regular verb (in french )!
feter
fete
fetes
fete
feton
fetez
fetent
```

EX 5 :

```c
#include <stdio.h>
#include <string.h>
```

```c
int main()
{

    char word[100];
    printf("Enter the word !s\n ");
    gets(word);

    int i = 0;
    int check = 1;
    while (i < strlen(word) && word[i] == word[strlen(word) - i - 1])
    {
        ++i;
    }

    // checking pal !
    if (i == strlen(word))
    {
        printf("Palindrome ! ");
    }
    else
    {
        printf("Not palindrome ! ");
    }

    return 0;
}
```

RESULTS :

```
C:\Users\Machiavelli\Desktop\UnivCodes\TP\TP6>gcc ex5.c -o ex && ex.exe
Enter the word !s
 ping pong
Not palindrome !
C:\Users\Machiavelli\Desktop\UnivCodes\TP\TP6>gcc ex5.c -o ex && ex.exe
Enter the word !s
```

```
 hello olleh
Palindrome !
C:\Users\Machiavelli\Desktop\UnivCodes\TP\TP6>
```

EX 6

```c
#include <stdio.h>
#include <string.h>

int main()
{

    char string[100];
    char voy[12] = "aeiouyAEIOUY";
    do
    {
        printf("Enter the String ! \n");
        gets(string);

    } while (strlen(string) == 0);

    int count = 0;
    for (int i = 0; i < strlen(string); i++)
    {
        for (int j = 0; j < 12; j++)
        {
            if (string[i] == voy[j])
                ++count;
        }
    }

    printf("for STRING = %s the value of S is : %d", string, count);
    return 0;
}
```

```
C:\Users\Machiavelli\Desktop\UnivCodes\TP\TP6>gcc ex6.c -o ex && ex.exe
Enter the String !
```

```
hello world my name is alaa barka
for STRING = hello world my name is alaa barka the value of S is : 12
C:\Users\Machiavelli\Desktop\UnivCodes\TP\TP6>
```

EX 7

```c
#include <stdio.h>
#include <string.h>




int main()
{

    char line[100];
    do
    {
        printf("Enter the line ! \n");
        gets(line);
    } while (strlen(line) == 0);

    char voy[12] = "aeiouyAEIOUY";
    int check, length = strlen(line);
    for (int i = 0; i < strlen(line); i++)
    {
        check = 0;
        for (int j = 0; j < 12; j++)
        {
            if (line[i] == voy[j])
            {
                for (int k = i; k < strlen(line); k++)
                {
                    line[k] = line[k+1] ;
                }
            }
        }
    }
```

```c
    }
    printf(line) ;


    return 0;
}
```

```
C:\Users\Machiavelli\Desktop\UnivCodes\TP\TP6>gcc ex7.c -o ex && ex.exe
Enter the line !
Hello World ! my name is Ala Barka
Hll Wrld ! m nm s l Brk
C:\Users\Machiavelli\Desktop\UnivCodes\TP\TP6>
```