Practical 9 part 1

/* Name-Parimal Muley

roll no-588[E3]

  Write a program in C to convert every lowercase letter to uppercase letter and vice versa in a
given string   */

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

int main()
{
    char str[20];
    int a;
    printf("\nEnter any uppercase/lowercase letter :: ");
    gets(str);

    printf("\nThe entered uppercase/lowercase letter is :: [ %s ]\n",str);
    for(a=0;a<=strlen(str);a++) /*using for loop to convert upper case to lower case and vice versa*/
  {
        if(str[a]>=97&&str[a]<=122)
            str[a]=str[a]-32;
        else if(str[a]>=65&&str[a]<=90)//using if else statement to convert uppercase to lowercase and
lower to uppercase
            str[a]=str[a]+32;
        else;
    }
```

printf("\nThe Converted uppercase/lowercase letter is :: [%s]\n",str);//printing the final output

    return 0;

}

/* Output-

Enter any uppercase/lowercase letter :: Harry Potter

The entered uppercase/lowercase letter is :: [Harry Potter]

The Converted uppercase/lowercase letter is :: [hARRY pOTTER]

Process exited after 10.47 seconds with return value 0

Press any key to continue . . .

 */

Practical 9 part 2

/*

Practical 9 part 2

Parimal Muley

Roll No- 588 E3

Write a program in C to implement the string functions using the standard library functions supported by string.h like:

 string length, string copy, string reverse, string concatenate, string compare, substring

*/#include<stdio.h>

#include<string.h>

int main()

```c
{
char s1[40],s2[30],s3[20],s4[20],s5[20];

int length ,x,y;

                              //taking the input for the strings

printf("Enter the First string\n");

gets(s1);

printf("Enter the Second string\n");

gets(s2);

printf("Enter the Third string\n");

gets(s3);

                              // concatinating the strings

strcat(s1," ");

strcat(s1,s2);

strcat(s1," ");

strcat(s1,s3);

                              //printing the concatinated  string

printf("String concatenantion of 3 input strings is %s\n",s1);


strcpy(s4,s2);                    // copying string s2 in string s4

printf("String copy of string s2 in s4 is %s\n",s4);



length=strlen(s1);//calculating the length of the string using strlen function

printf("Total number of characters present in given string is %d\n",length );


x=strcmp(s2,s3);                    //comparing string s2 and s3

if(x==0)

printf("Strings are equal by length and by character\n");

else
```

```c
printf("Strings are not equal by length and by character\n");


strrev(s3);                              // reversing the string s3

printf("String reverse of s3 is %s\n",s3);


printf("Enter the substring to be searched whether it is a substring of s2\n");

gets(s5);

if(strstr(s5,s2)==s2) //usinf strstr function to check wheteher it is substring or not

printf("\n S5 is not a  substring of S2 %s",s2);

else

printf("\n S5 is  a substring of S2 %s ",s2);

return 0;

}
```

/* Output- Enter the First string

Mahendra singh dhoni

Enter the Second string

Virat Kohli

Enter the Third string

Jadeja

String concatenantion of 3 input strings is Mahendra singh dhoni Virat Kohli Jadeja

String copy of string s2 in s4 is Virat Kohli

Total number of characters present in given string is 39

Strings are not equal by length and by character

String reverse of s3 is ajedaJ

Enter the substring to be searched whether it is a substring of s2

vir

 S5 is a substring of S2 Virat Kohli

Process exited after 59.65 seconds with return value 0

Press any key to continue . . ./*