PROGRAMMING LABORATORY-6

CS1000

Assignment-6
Group-'P7' Section:'E'

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Codes are uploaded on my GitHub account: https://github.com/prachi237/justC

Assignment-6

1) WAP to enter the details of a student (Name, Roll_number, and Branch) as input through keyboard and print it.

//WAP to enter the details of a student (Name, Roll_number, and Branch) as input through keyboard and print it.

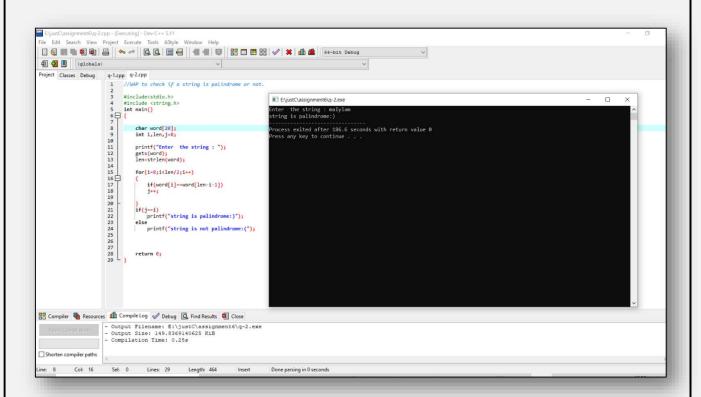
```
#include<stdio.h>
int main()
       char name[20];
                                                       //variable declaration
       char roll_no[10];
       char branch[20];
       printf("Enter your name please:");
       scanf("%s",&name);
       printf("\n Enter your Roll number:");
       scanf("%s",&roll_no);
       printf("\n Enter you branch:");
       scanf("%s",&branch);
       printf("\n Your name is %s",name);
       printf("\n your roll number is %s",roll_no);
       printf("\n your branch is %s",branch);
 return 0;
```

```
Figure Compiler W Beaucross: (Laboration Compiler of Debug)  

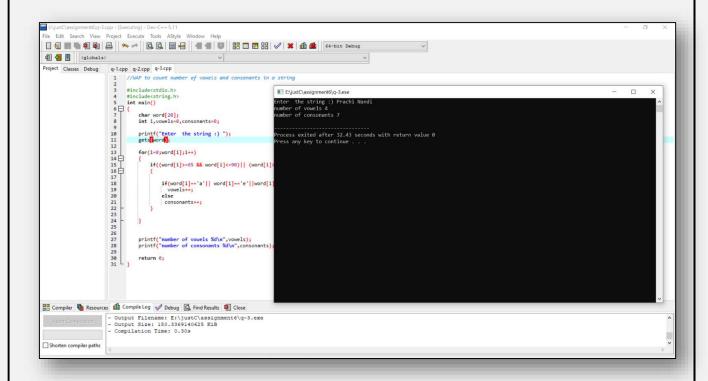
| Figure Compiler W Beaucross: (Laboration Compiler of Debug)  | Find Seals | Compiler W Beaucross: (Laboration Compiler of Compiler of
```

2) WAP to check if a string is palindrome or not

```
j++;
}
if(j==i)
    printf("string is palindrome:)");
else
    printf("string is not palindrome:(");
return 0;
}
```



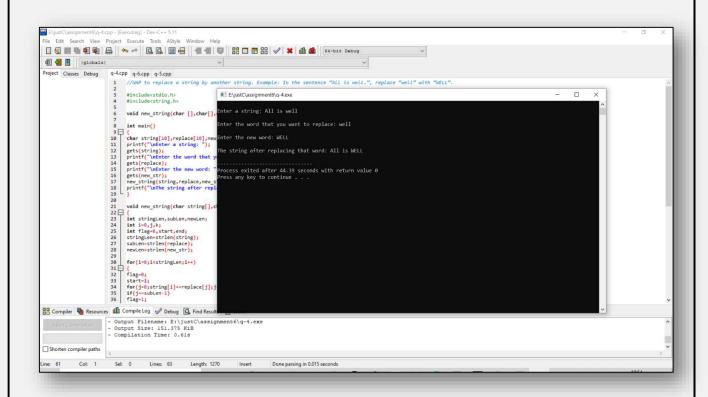
```
3) WAP to count number of vowels and consonants in a string
#include <stdio.h>
#include <string.h>
int main()
  char word[20];
           int i,vowels=0,consonants=0;
           printf("Enter the string:)");
           gets(word);
          for(i=0;word[i];i++)
          {
                                    if((word[i]>=65 && word[i]<=90)|| (word[i]>=97 && word[i]<=122))
                  {
           if(word[i]=='a'|| word[i]=='e'||word[i]=='i'||word[i]=='o'||word[i]=='u'||word[i]=='A'||word[i]=='a'|| word[i]=='a'||word[i]=='a'||word[i]=='a'||word[i]=='a'||word[i]=='a'||word[i]=='a'||word[i]=='a'||word[i]=='a'||word[i]=='a'||word[i]=='a'||word[i]=='a'||word[i]=='a'||word[i]=='a'||word[i]=='a'||word[i]=='a'||word[i]=='a'||word[i]=='a'||word[i]=='a'||word[i]=='a'||word[i]=='a'||word[i]=='a'||word[i]=='a'||word[i]=='a'||word[i]=='a'||word[i]=='a'||word[i]=='a'||word[i]=='a'||word[i]=='a'||word[i]=='a'||word[i]=='a'||word[i]=='a'||word[i]=='a'||word[i]=='a'||word[i]=='a'||word[i]=='a'||word[i]=='a'||word[i]=='a'||word[i]=='a'||word[i]=='a'||word[i]=='a'||word[i]=='a'||word[i]=='a'||word[i]=='a'||word[i]=='a'||word[i]=='a'||word[i]=='a'||word[i]=='a'||word[i]=='a'||word[i]=='a'||word[i]=='a'||word[i]=='a'||word[i]=='a'||word[i]=='a'||word[i]=='a'||word[i]=='a'||word[i]=='a'||word[i]=='a'||word[i]=='a'||word[i]=='a'||word[i]=='a'||word[i]=='a'||word[i]=='a'||word[i]=='a'||word[i]=='a'||word[i]=='a'||word[i]=='a'||word[i]=='a'||word[i]=='a'||word[i]=='a'||word[i]=='a'||word[i]=='a'||word[i]=='a'||word[i]=='a'||word[i]=='a'||word[i]=='a'||word[i]=='a'||word[i]=='a'||word[i]=='a'||word[i]=='a'||word[i]=='a'||word[i]=='a'||word[i]=='a'||word[i]=='a'||word[i]=='a'||word[i]=='a'||word[i]=='a'||word[i]=='a'||word[i]=='a'||word[i]=='a'||word[i]=='a'||word[i]=='a'||word[i]=='a'||word[i]=='a'||word[i]=='a'||word[i]=='a'||word[i]=='a'||word[i]=='a'||word[i]=='a'||word[i]=='a'||word[i]=='a'||word[i]=='a'||word[i]=='a'||word[i]=='a'||word[i]=='a'||word[i]=='a'||word[i]=='a'||word[i]=='a'||word[i]=='a'||word[i]=='a'||word[i]=='a'||word[i]=='a'||word[i]=='a'||word[i]=='a'||word[i]=='a'||word[i]=='a'||word[i]=='a'||word[i]=='a'||word[i]=='a'||word[i]=='a'||word[i]=='a'||word[i]=='a'||word[i]=='a'||word[i]=='a'||word[i]=='a'||word[i]=='a'||word[i]=='a'||word[i]=='a'||word[i]=='a'||word[i]=='a'||word[i]=='a'||word[i]=='a'||word[i]=='a'||word[i]=='a'||word[i]=='a'||word[i]=='a'||word[i]=='a'||word[i]=='a'||word[i]=='a'||word[i]=='a
d[i]=='E'||word[i]=='I'||word[i]=='O' ||word[i]=='U')
                                       vowels++;
           else
                                     consonants++;
                      }
                                   }
           printf("number of vowels %d\n",vowels);
           printf("number of consonants %d\n",consonants);
             return 0;
}
```



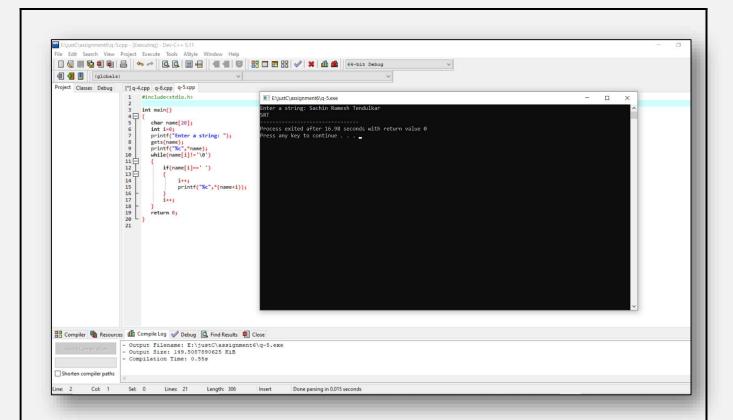
4) WAP to replace a string by another string. Example: In the sentence "All is well.", replace "well" with "WELL".

```
printf("\nEnter the new word: ");
gets(new_str);
new_string(string,replace,new_str);
                                                          //function call
printf("\nThe string after replacing that word: %s\n",string);
}
void new_string(char string[],char replace[],char new_str[]) //function
{
int stringLen, replaceLen, newLen;
int i=0,j,k;
int flag=0,start,end;
stringLen=strlen(string);
replaceLen=strlen(replace);
newLen=strlen(new_str);
for(i=0;i<stringLen;i++)
flag=0;
start=i;
for(j=0;string[i]==replace[j];j++,i++)
if(j==subLen-1)
flag=1;
end=i;
if(flag==0)
i-=j;
else
for(j=start;j<end;j++)
for(k=start;k<stringLen;k++)</pre>
string[k]=string[k+1];
stringLen--;
i--;
}
```

```
for(j=start;j<start+newLen;j++)
{
  for(k=stringLen;k>=j;k--)
  string[k+1]=string[k];
  string[j]=new_str[j-start];
  stringLen++;
  i++;
}
}
return 0;
}
```

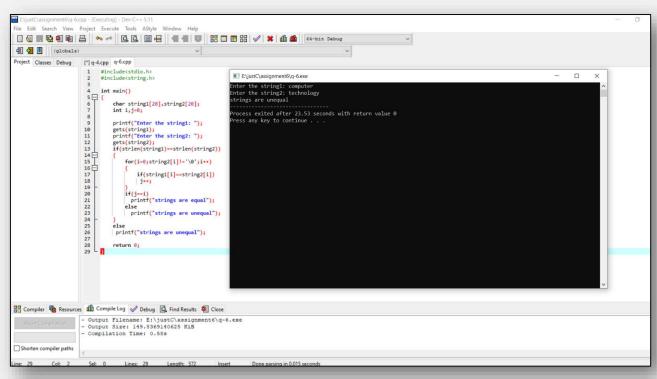


```
5) WWAP which print initial of any name.
  Example Input: Sachin Ramesh Tendulkar
  Output: SRT
#include <stdio.h>
int main()
 char name[20];
                               //variable declaration
 int i=0;
 printf("Enter a string: ");
 gets(name);
 printf("%c",*name);
 while(name[i]!='\0')
 {
    if(name[i]==' ')
        {
       i++;
      printf("%c",*(name+i));
    }
    i++;
 return 0;
}
```



6) WAP to enter two strings and compare whether they are equal or not.

```
if(string1[i]==string2[i])
    j++;
    }
    if(j==i)
    printf("strings are equal");
    else
     printf("strings are unequal");
}
else
printf("strings are unequal");
return 0;
}
```



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Submitted by: Prachi Nandi 120C50196

THANK YOU