

Assignment=17

String programs in c

//1. write a program to find the length of string.(without using string function)

```
#include <stdio.h>
#include <string.h>
int main()
{
    char str[20]="abhay raj giri";
    int i;
    for(i=0;str[i];i++);
    printf("\nlength of string is %d",i);
    //printf("\nlength of string is %d",strlen(str));
    return 0;
}
```

//2. write a program to count the accuracy of given character in an given string

```
#include <stdio.h>
#include <string.h>
int main()
{
    char str[20],str1;int count,i;
    printf("\nEnter the String");
    fgets(str,20,stdin);
    printf("\nEnter the character you find accuracy of :");
    scanf("%c",&str1);
    for(i=0;str[i];i++)
    {
        if(str[i]==str1)
        {
            count ++;
        }
    }
    printf("\naccuracy of given character is %d",count);
    return 0;
}
```

//3. write a program to count vowels in the string

```

#include <stdio.h>
#include <string.h>
int main()
{
    char str[20];int i,count=0;
    printf("\nEnter the String :");
    fgets(str,20,stdin);
    for(i=0;str[i];i++)
    {
        if(str[i]=='a' || str[i]=='e' || str[i]=='o' || str[i]=='u' || str[i]=='i')
        {
            count++ ;
        }
        else if(str[i]=='A' || str[i]=='E' || str[i]=='O' || str[i]=='I' ||
str[i]=='U')
        {
            count++ ;
        }

    }
    printf("\nvowels in the given string is %d",count);
    return 0;
}

```

//4. write a program to convert aa string into uppercase.

```

#include <stdio.h>
#include <string.h>
int main()
{
    char str[20],j;int i,count;
    printf("\nEnter string :");
    fgets(str,20,stdin);
    for(i=0;str[i];i++)
    {
        for(j=65;j<=90;j++)
        {
            switch(j)
            {
                case 65 ... 90:
                    if(str[i]>j)
                    {
                        if(str[i]-32==j)

```

```

        {
            printf("%c",j);
        }
    }
    else if(str[i]==j)
        printf("%c",str[i]);
        break;
    }
}
}
// printf("%s",str);
// printf("\n hello %s",strupr(str));

```

//5. write a program to convert aa string into uppercase.

```

#include <stdio.h>
#include <string.h>
int main()
{
    char str[20],j;int i,count;
    printf("\nEnter string :");
    fgets(str,20,stdin);
    for(i=0;str[i];i++)
    {
        for(j=65;j<=90;j++)
        {
            switch(j)
            {
                case 65 ... 90:
                    if(str[i]>j)
                    {
                        if(str[i]-32==j)
                        {
                            str[i]=j;
                        }
                    }
                }
            }
        }
        break;
    }
}
}
printf("\n%s",str);
}

```

```
// printf("%s",str);
//      printf("\n hello %s",strupr(str));
```

//6. write a program to convert a given into lowercase.

```
#include <stdio.h>
#include <string.h>
int main()
{
    char str[20];int i,j;
    printf("\nEnter the string");
    fgets(str,20,stdin);
    for(i=0;str[i];i++)
    {
        for(j=97;j<=122;j++)
        {
            switch(j)
            {
                case 97 ... 122:
                    if(str[i]<j)
                    {
                        if(str[i]+32==j)
                            str[i]=j;
                    }
                    break;
            }
        }
    }
    /* printf("%s",str);
    printf("%s",strlwr(str)); */

    return 0;
}
```

//7.write a program to reverse a string .

```
#include <stdio.h>
#include <string.h>
int main()
{
    char str[20];int i,l;
    printf("\nEnter String :");
    fgets(str,20,stdin);
```

```

    l=strlen(str);
    for(i=l;i>=0;i--)
        printf("%c",str[i]);
//    printf("%s",strrev(str));
}

```

//8. write a program in c to copy one string into another string

```

#include <stdio.h>
int main()
{
    char str1[20],str[20];int i;
    printf("\nEnter string:");
    fgets(str,20,stdin);
    for(i=0;str[i];i++)
        str1[i]=str[i];
    printf("%s",str1);
//    printf("%s",strcpy(str1,str));
    return 0;
}

```

// 9. write a program in c to find the alphabet, digits and special character in string.

```

#include <stdio.h>
#include <string.h>
int main()
{
    char str[20];int i,j,digit=0,spi=0,count=0;static alpha=0;
    printf("\nEnter String:");
    fgets(str,20,stdin);
    digit=strlen(str);
    for(i=0;i<digit-1;i++)
    {
        if(str[i]<=90 && str[i]>=65)
        {
            alpha ++;
        }
        else if(str[i]>=97 && str[i]<=122)
        {
            alpha ++;
        }
        else if(str[i]>=46 && str[i]<=55)
        {

```

```

        count ++;
    }
    else
    {
        spi++;
        str[i]=-1;
    }
}
printf("\nAlphabet = %d\n digit= %d\n special character = %d",alpha,count,spi);
}

```

//10.write a program to sort an string in ascending order

```

#include <stdio.h>
#include <string.h>
int main()
{
    char str[25];int i,l,j,k,temp;
    printf("\nEnter string :");
    fgets(str,25,stdin);
    l=strlen(str);
    for(i=0;i<l-1;i++)
    {
        for(j=i;j<l-2;j++)
        {
            if(str[i]<str[j+1])
            {
                temp=str[j+1];
                str[j+1]=str[i];
                str[i]=temp;
            }
        }
    }
    printf("%s %d",str,l);
    return 0;
}

```