

Q1:-

```
#include<stdio.h>

int main()
{
    char str[10]="kritika";
    int i;
    for(i=0;str[i];i++);
    printf("Length of a string is %d",i);
    return 0;
}
```

Q2:-

```
#include<stdio.h>
#include<string.h>
int main()
{
    char str[100];
    char character;
    int i,count=0;
    printf("Enter string:\n");
    fgets(str,100,stdin);
    fflush(stdin);
    printf("Enter character:\n");
    scanf("%c",&character);
    for(i=0;str[i];i++)
    {
        if(str[i]==character)
            count++;
    }
}
```

```
        printf("%d",count);  
    }  
}
```

Q3:-

```
#include<stdio.h>  
#include<string.h>  
int main()  
{  
    char str[100],character;  
    int i,count=0;  
    printf("Enter string:\n");  
    fgets(str,100,stdin);  
    for(i=0;str[i];i++)  
    {  
        if(str[i]=='a' || str[i]=='e' || str[i]=='i' || str[i]=='o' || str[i]=='u')  
            count++;  
    }  
    printf("Vowels in a string is %d",count);  
}
```

Q4:-

```
#include<stdio.h>  
#include<string.h>  
int main()  
{  
    char str[100];  
    int i;  
    printf("Enter string in lowercase:\n");  
    fgets(str,100,stdin);
```

```

fflush(stdin);

for(i=0;str[i];i++)
{
    if(str[i]>='a'&&str[i]<='z')
        str[i]=str[i]-32;
}

printf("%s",str);

return 0;
}

```

Q5:-

```

#include<stdio.h>
#include<string.h>
int main()
{
    char str[100];
    int i;
    printf("Enter string in uppercase:\n");
    fgets(str,100,stdin);
    fflush(stdin);
    for(i=0;str[i];i++)
    {
        if(str[i]>='A'&& str[i]<='Z')
            str[i]=str[i]+32;
    }
    printf("%s",str);
    return 0;
}

```

Q6:-

```

#include<stdio.h>
#include<string.h>
int main()
{
    char str[100];
    int i;
    printf("Enter a string:\n");
    fgets(str,100,stdin);
    int len=strlen(str);
    for(i=0;i<len/2;i++)
    {
        char temp=str[i];
        str[i]=str[(len-i)-1];
        str[(len-i)-1]=temp;
    }
    printf("%s",str);
    return 0;
}

```

Q7:-

```

#include<stdio.h>
#include<string.h>
#include<stdlib.h>
int main()
{
    char str[100];
    int i,digit_count=0,special_count=0,alpha_count=0;
    printf("Enter string:\n");
    gets(str);

```

```

for(i=0;str[i];i++)
{
    if(str[i]>='A' && str[i]<='Z' || str[i]>='a' && str[i]<='z')
        alpha_count++;
    else if(str[i]>='0' && str[i]<='9')
        digit_count++;
    else
        special_count++;
}

printf("Digits %d\nspecial character's %d\nalphabets
%d",digit_count,special_count,alpha_count);

return 0;
}

```

Q8:-

```

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

int main()
{
    char str[100];
    char copy[100];
    int i;
    printf("Enter string:\n");
    fgets(str,100,stdin);
    for(i=0;str[i]!='\0';i++)
    {
        copy[i]=str[i];
    }
    printf("%s",copy);
    return 0;
}

```

```
}
```

Q9:-

```
#include<stdio.h>
#include<string.h>
int main()
{
    char str[100];
    int i,j;
    printf("Enter string:\n");
    fgets(str,100,stdin);
    for(i=0;str[i]!='\0';i++)
    {
        for(j=i+1;j<str[j]!='\0';j++)
        {
            if(str[i]>str[j])
            {
                char temp=str[i];
                str[i]=str[j];
                str[j]=temp;
            }
        }
    }
    printf("%s",str);
    return 0;
}
```

Q10:-

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

```
#include<string.h>
#include<stdlib.h>
int main()
{
    char str[100];
    int hash[150]={0};
    int i;
    printf("Enter string:\n");
    gets(str);
    for(i=0;str[i]!='\0';i++)
    {
        hash[str[i]]++;
    }
    for(i=0;i<150;i++)
    {
        if(hash[i]>0)
            printf("%c==>%d\n",i,hash[i]);
    }
    return 0;
}
```