① #include <stdio.h>
int main()
{
    char str[] = "Ramesh";
    int i;
    for (i = 0; str[i]. i++);
        printf("string length = %d", i);
    return 0;
}

② #include <stdio.h>
int main()
{
    char str[400];
    int i, count = 0

    char P[1];
    printf("Enter string");
    fgets(str, 400, stdin);
    printf("find enter charater);
    fgets(P, 1, stdin);
    for (int i = 0; std[i]; i++)
    {
        If (std[i] = P[1])
            count++;
    printf("given occurrence character = %d", count);
    return 0;
}

③
```c
# include <stdio.h>
int main()
{  char str[50], v[] = "aeiouAEIOU";
   int i, j, caunt = 0;
   printf ("Enter a string");
   fgets (str,50, stdin);
   for (i=0; str[i]; i++)
   {  for (j = 0; v[j], j++)
      {   if (str[i] == v[j])
         {        caunt ++;
                  break;
         }
      }
   }
}
```

```c
④ #include <stdio.h>
int main()
{
    char str[50];
    int i;
    printf("enter a string");
    fgets(str, 50, stdin);
    for(i=0; str[i]; i++)
    {
        if(str[i] >= 'a' && str[i] <= 'z')
            str[i] = str[i] - 32;
    }
    printf("upper case=%s", str);
    return 0;
}
```

```c
⑤ #include <stdio.h>
int main()
{
    char str[50];
    int i;
    printf("enter a string");
    fgets(str, 50, stdin);
    for(i=0; str[i]; i++)
    {
        if(str[i] >= 'A' && str[i] <= 'z')
            str[i] = str[i] + 32;
    }
}
```

```c
    printf ("lower case = %s", str);
    return 0;
}

(6)  #include <stdio.h>
     int main ()
     {
         char str[50];
         printf ("enter string");
         fgets (str, 50, stdin);
         printf ("%s", strrev(str));
         return 0;
     }

(7)  #include <stdio.h>
     int main ()
     {
         char str[100];
         int alp, digit, spsc; i=0;
         printf ("enter a string");
         fgets (str, 100, stdin);
         while (str [i]!= '\0')
         {
             if ((str[i] >= 'a' && str[i] <= 'z') || str [i] >= 'A' &&
                 str [i] <= 'z'))
                 alp++;
             else if ((str[i] >= '0' && str[i] <= '9'))
                 digit ++;
             else
                 spsc++;
             i++;
         }
         printf ("Num of Alphabet = %d, digit = %d and spsc = %d", alp, digit);
```

```c
⑧  #include <stdio.h>
    int main()
    {   char str1[50];
        char str2[50];
        printf("Enter a string");
        fgets(str1, 50, stdin);
        strcpy(str2, str1);
        printf("After copy str2 = %s", str2);
        getch();
    }


⑨  #include <stdio.h>
    int main()
    {
        char str[100], ch;
        int i, j, l;
        printf("Enter string");
        fgets(str, 100, stdin);
        l = strlen(str);
        for(i=0; i<l-1; i++)
        {   for(j=1; j<l, j++)
                if(str[j] < str[i])
                    ch = str[j];
```

```c
        str[j] = str[i];
        str[i] = ch;
      }
    }
  }

  for(i=0; str[i]; i++)
     printf("%s", str);
  return 0;
}
```

(10)
```c
#include <stdio.h>
int main()
{
    char str[100];
    int i, j, l, temp=0;
    printf("Enter string");
    fgets(str, 100, stdin);
    l = strlen(str);
    for(i= 0; i< l-1; i++)
    {
        for(j=1; j<l; j++)
        {
            if(str[i] = str[j])
                temp++;
        }
    }
    printf("frequency character = %d", temp);
    return 0;
}
```