

Programme 1:

```
#include<stdio.h>
void strreplace(char [], char [],char [],int n);
int main()
{
    int n;
    printf("\n enter howmany character enter ? \n");
    scanf("%d",&n);
    char str1[n],str2[n],str3[n];
    printf("\n enter the string : \n");
    scanf("%s",str1);
    printf("\n enter the replace : \n");
    scanf("%s",str2);
    printf("\n enter the replace with string : \n");
    scanf("%s",str3);
    strreplace(str1,str2,str3,n);
    return 0;
}
void strreplace(char str1[], char str2[],char str3[],int n)
{
    for(int i=0;str2[i]!='\0';i++)
    {
        for(int j=0;str1[j]!='\0';j++)
        {
            if(str1[j]==str2[i])
            {
                printf("%c",str1[j]);
                str1[j]=str3[i];
            }
        }
    }
    printf("%s",str1);
}
```

o/p:

enter howmany character enter ?

5

enter the string :

vivek

enter the replace :

ek

enter the replace with string :

rk

vivrk

enter howmany character enter ?

4

enter the string :
abcd

enter the replace :
cd

enter the replace with string :
45
cd
ab45

programme 2:

```
#include<stdio.h>
void oddeven(char [],int);
int main()
{
    int n;
    printf("\n howmany char are insert ? \n");
    scanf("%d",&n);
    char ch[n];
    printf("\n enter the character : \n");
    scanf("%s",ch);
    oddeven(ch,n);
}
void oddeven(char ch[],int n)
{
    int temp=48,flag;
    int digit[n];
    for(int i=0;ch[i]!='\0';i++)
    {
        digit[i]=ch[i];
        digit[i]-=temp;
        printf("%d\n",digit[i]);
    }
    for(int i=0;digit[i]!='\0';i++)
    {
        if(digit[i] & 1 == 1)
            flag=1;

        else
            flag=2;
    }
    if(flag==1)
    {
        printf("\n:- odd \n");
    }
}
```

```
        else
        {
            printf("\n:- even \n");
        }
    }
```

o/p:

howmany char are insert ?
6

enter the character :

vaidik

70

49

57

52

57

59

:- even

howmany char are insert ?
5

enter the character :

vivek

70

57

70

53

59

:- odd

howmany char are insert ?
5

enter the character :

12345

1

2

3

4

5

:- odd

howmany char are insert ?

6

enter the character :

536473

5

3

6

4

7

3

:- even

programme 3:

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

```
int main()
```

```
{
```

```
    int n;
```

```
    printf("\n enter the number of element : \n");
```

```
    scanf("%d",&n);
```

```
    int arr[n];
```

```
    for(int i=0;i<n;i++)
```

```
    {
```

```
        scanf("%d",&arr[i]);
```

```
    }
```

```
    for(int i=0;i<n-1;i++)
```

```
    {
```

```
        if(i%2==0)
```

```
        {
```

```
            if(arr[i]>arr[i+1])
```

```
            {
```

```
                int temp=arr[i];
```

```
                arr[i]=arr[i+1];
```

```
                arr[i+1]=temp;
```

```
            }
```

```
        }
```

```
    else
```

```
    {
```

```
        if(arr[i]<arr[i+1])
```

```
        {
```

```
            int temp=arr[i];
```

```
            arr[i]=arr[i+1];
```

```
            arr[i+1]=temp;
```

```
        }
```

```
    }
```

```
}
```

```
printf("\n\n");
```

```
for(int i=0;i<n;i++)
```

```

    {
        printf("%d\n",arr[i]);
    }
}

```

o/p:

enter the number of element :

4
2
3
4
5

2
4
3
5

programme 4:

```

#include<stdio.h>
void changechar(char [],int);
int main()
{
    int n;
    printf("\n howmany char are insert ? \n");
    scanf("%d",&n);
    char str[n];
    printf("\n enter the string : \n");
    scanf("%s",str);
    changechar(str,n);
}
void changechar(char str[],int n)
{
    char c[1];
    printf("\n enter character if you want to change ? \n");
    scanf("%s",c);
    for(int i=0;c[i]!='\0';i++)
        printf("\n%c\n",c[i]);
    int position;
    printf("\n enter the postition : \n");
    scanf("%d",&position);
    position=position-1;
    for(int i=0;str[i]!='\0';i++)
    {
        if(i==position)
            str[i]=c[0];
        printf("%c",str[i]);
    }
}

```

```
}
```

o/p:

howmany char are insert ?

5

enter the string :

vivek

enter character if you want to change ?

r

r

enter the postition :

3

virek

howmany char are insert ?

5

enter the string :

rocky

enter character if you want to change ?

x

x

enter the postition :

4

rocpy

programme 5:

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

```
#include<stdlib.h>
```

```
void merge(int *,int *,int,int);
```

```
int main()
```

```
{
```

```
    int n1,n2;
```

```
    printf("\n enter element of 1 array : \n");
```

```
    scanf("%d",&n1);
```

```
    printf("\n enter element of 2 array : \n");
```

```
    scanf("%d",&n2);
```

```
    int *p1,*p2;
```

```
    p1=(int *)malloc(sizeof(int)*n1);
```

```
    p2=(int *)malloc(sizeof(int)*n2);
```

```
    merge(p1,p2,n1,n2);
```

```
}
```

```

void merge(int *p1,int *p2,int n1,int n2)
{
    int *p3;
    int n3=n1+n2;
    p3=(int *)malloc(sizeof(int)*n3);
    printf("\n enter array 1:\n");
    for(int i=0;i<n1;i++)
    {
        scanf("%d",&p1[i]);
    }
    for(int i=0;i<n1;i++)
    {
        printf("%d\n",p1[i]);
    }
    printf("\n enter array 2:\n");
    for(int i=0;i<n2;i++)
    {
        scanf("%d",&p2[i]);
    }
    for(int i=0;i<n2;i++)
    {
        printf("%d\n",p2[i]);
    }
    for(int i=0;i<n1;i++)
    {
        p3[i]=p1[i];
    }
    for(int i=0,j=n1;j<n3 && i<n2;i++,j++)
    {
        p3[j]=p2[i];
    }
    printf("\n two array are merged in following : \n");
    for(int i=0;i<n3;i++)
    {
        /*for(int j=i+1;j<n3;j++)
        {
            if(p3[i]>p3[j])
            {
                int temp=p3[i];
                p3[i]=p3[j];
                p3[j]=temp;
            }
        }*/
        printf("%d\n",p3[i]);
    }
    free(p1);
    free(p2);
    free(p3);
}

```

o/p:

enter element of 1 array :

3

enter element of 2 array :

3

enter array 1:

1

2

3

1

2

3

enter array 2:

4

5

6

4

5

6

two array are merged in following :

1

2

3

4

5

6

enter element of 1 array :

2

enter element of 2 array :

2

enter array 1:

1

2

1

2

enter array 2:

10

11

10

11

two array are merged in following :

1

2

10

programme 6:

```
#include<stdio.h>
#include<stdlib.h>
struct stud
{
    int rollno;
    char name[25];
    int mark[20];
    int total;
};
void add(struct stud *s,int n);
void display(struct stud *s,int n,int m);
int main()
{
    int n;
    int res;
    printf("howmany record insert \n");
    scanf("%d",&n);
    struct stud s;
    struct stud *s1;
    s1=(struct stud *)malloc(sizeof(s)*n);
    add(s1,n);
}
void add(struct stud *s,int n)
{
    int m;
    for(int i=0;i<n;i++)
    {
        printf("\n rollno :");
        scanf("%d",&s[i].rollno);
        printf("\n name :");
        scanf("%s",s[i].name);
        printf("\n howmany marks are enter");
        scanf("%d",&m);
        s[i].total=0;
        for(int j=0;j<m;j++)
        {
            printf("\n mark %d : \t",j+1);
            scanf("%d",&s[i].mark[j]);
            s[i].total=s[i].total+s[i].mark[j];
        }
    }
    display(s,n,m);
}
void display(struct stud *s,int n,int m)
{
    int flag=0;
    for(int i=0;i<n;i++)
```

```

{
    printf("\n rollno : %d",s[i].rollno);
    printf("\n name : %s",s[i].name);
    for(int j=0;j<m;j++)
    {
        printf("\n mark %d : %d",j+1,s[i].mark[j]);
    }
    for(int j=0;j<m;j++)
    {
        if(s[i].mark[j]<=12)
        {
            flag=0;
            break;
        }
        else
        {
            flag=1;
        }
    }
    if(flag==1)
    {
        printf("\n result(pass/fail) : pass\n");
        printf("\n total : %d",s[i].total);
    }
    else
    {
        printf("\n result(pass/fail) : fail\n");
    }
}
}

```

o/p:

```

rollno : 1
name : vicky
mark 1 : 56
mark 2 : 78
mark 3 : 65
result(pass/fail) : pass

```

```

total : 199
rollno : 2
name : vivek
mark 1 : 0
mark 2 : 56
mark 3 : 76
result(pass/fail) : fail

```