```c
/*
* Que.1 : print string with multiple spaces from user and print as it is.
* owner : Shreya Kailas Saskar
* batch : PPA9
*/


// solution :

#include<stdio.h>
#include<conio.h>

void main()
{
	char name[20];

	printf("enter a string : ");
	fgets(name , sizeof(name) , stdin);

	printf("%s",name);
	getch();
}
```

```c
/*
* Que.2 : String with multiple spaces from user and print it with a sinlge space as
delimiter
* owner : Shreya Kailas Saskar
* batch : PPA9
*/


// solution :

#include<stdio.h>
#include<conio.h>

void main()
{
	char str[50]; //character array
	int i = 0;
	int cnt = 0;
	printf("enter a name : ");
	fgets(str , sizeof(str) , stdin);

	//after operation string
	while(str[i] != '\n')
	{
		while(str[i] == ' ')
		{
			i++;
		}
		// here more than one then print only ones time space
		if(str[i] != ' ' && str[i] != '\n')
		{
			cnt++;
			if(cnt == 1);
			else
				printf(" ");

		}
		while(str[i] != ' ' && str[i] != '\n')
		{
			printf("%c",str[i]);
			i++;
		}

	}

	getch();
}
```

```c
/*
* Que.3 : Count characters in string
* owner : Shreya Kailas Saskar
* batch : PPA9
*/


// solution :

#include<stdio.h>
#include<conio.h>

void main()
{
	char str[50];
	int i;
	int cnt = 0; //counter variable

	printf("enter a string : ");
	fgets(str , sizeof(str) , stdin);

	printf("given string is %s",str);
	// here we count only char
	for(i = 0 ; str[i] != '\0' ; i++)
	{
		if(str[i] >= 'a' && str[i] <= 'z' || str[i] >= 'A' && str[i] <= 'Z')
		{
			cnt++;
		}
	}

	printf("given string have %d characters",cnt);
	getch();
}
```

```c
/*
* Que.4 : Reverse the given string
* owner : Shreya Kailas Saskar
* batch : PPA9
*/


// solution :

#include<stdio.h>
#include<conio.h>

void main()
{
	char str[50];
	int i;
	int cnt = 0; //counter variable

	printf("enter a string : ");
	fgets(str , sizeof(str) , stdin);

	printf("given string is %s",str);

	for(i = 0 ; str[i] != '\n' ; i++)
	{
		cnt++;
	}
	printf("lenght of given string is %d",cnt);
	// here we reverse the string last position to first
	for(i = cnt ; i >= 0 ; i--)
	{
		printf("%c",str[i]);
	}

	getch();
}
```

```c
/*
* Que.5 : Count vowels and consonants in given string
* owner : Shreya Kailas Saskar
* batch : PPA9
*/


// solution :

#include<stdio.h>
#include<conio.h>

void main()
{
	char str[50];
	int i;
	int cntv = 0; //counter variable for vowels
	int cntc = 0;  //counter variable for consonants

	printf("enter a string : ");
	fgets(str , sizeof(str) , stdin);

	printf("given string is %s",str);

	for(i = 0 ; str[i] != '\0' ; i++)
	{
		if(str[i] >= 'a' && str[i] <= 'z' || str[i] >= 'A' && str[i] >= 'Z')
		{
			if(str[i] == 'a' || str[i] == 'e' || str[i] == 'i' || str[i] == 'o'
|| str[i] == 'u' || str[i] == 'A' || str[i] == 'E' || str[i] == 'I' || str[i] == 'O' ||
str[i] == 'U')
			{
				cntv++;
			}
			else
				cntc++;
		}
	}
	printf("number of vowels in given string are %d\n",cntv);
	printf("number of consonnats in given string are %d",cntc);

	getch();
}
```

```c
/*
* Que.6 : Reverse the string like as mirror image
* owner : Shreya Kailas Saskar
* batch : PPA9
*/


// solution :

#include<stdio.h>
#include<conio.h>

void main()
{
	char str[50];
	int i = 0 , j , s;

	printf("enter a string : ");
	fgets(str , sizeof(str) , stdin);

	printf("given string is %s\n",str);

	while(str[i] != '\n')
	{
		while(str[i] == ' ')
		{
			printf(" ");
			i++;
		}
		j = i; // here we have get 1st char of word

		while(str[i] != ' ' && str[i] != '\n')
		{
			i++;
		}
		s = i-1; // here we have last char of word
		// here we reverse last char up to first of the word
		while(s >= j && str[s] != '\n')
		{
			printf("%c",str[s]);
			s--;
		}
	}
	getch();
}
```

```c
/*
* Que.7 : Replace space into $(dollar)
* owner : Shreya Kailas Saskar
* batch : PPA9
*/


// solution :

#include<stdio.h>
#include<conio.h>

void main()
{
	char str[50];
	int i;

	printf("enter a string : ");
	fgets(str , sizeof(str) , stdin);

	printf("given string is %s",str);

	printf("after replace space into $ then string becomes : ");
	for(i = 0 ; str[i] != '\0' ; i++)
	{
		// here we replace space into dollar
		if(str[i] == ' ')
		{
			str[i] = '$';
		}
		printf("%c",str[i]);
	}

	getch();
}
```

```c
/*
* Que.8 : Find number of words in given string
* owner : Shreya Kailas Saskar
* batch : PPA9
*/


// solution :

#include<stdio.h>
#include<conio.h>

void main()
{
	char str[50];
	int i = 0, cnt = 0;

	printf("enter a name : ");
	fgets(str , sizeof(str) , stdin);

	printf("given string is %s\n",str);

	while(str[i] != '\0')
	{
		while(str[i] == ' ')
		{
			i++;
		}
		// here we count words char by char
		if(str[i] != ' ' && str[i] != '\n')
		{
			cnt++;
		}

		while(str[i] != ' ' && str[i] != '\0')
		{
			i++;
		}
	}

	printf("number of words in given string are : %d",cnt);

	getch();
}
```

```c
/*
* Que.9 : Replace good name in mail
* owner : Shreya Kailas Saskar
* batch : PPA9
*/


// solution :

#include<stdio.h>
#include<conio.h>

void main()
{
	char str[20];
	int i,j = 0;
	int cnt = 0;
	char gn[50] = {'h','e','l','l','o',' ','g','o','o','d','n','a','m','e'};

	printf("enter a name : ");
	fgets(str , sizeof(str) , stdin);

	for(i = 0 ; str[i] != '\n' ; i++)
	{
		cnt++;
	}

	cnt = cnt + 5;

	for(i = 0 ; i <= cnt ; i++)
	{
		//printf("%c",gn[i]);
		if(i >= 6)
		{
			// here we replace goodname into string
			gn[i] = str[j];
			j++;
		}
	}
	gn[i] = '\0';

	for(i = 0 ; gn[i] != '\0' ; i++)
	{
		printf("%c",gn[i]);
	}

	getch();
}
```

```c
/*
* Que.11: accept string which contains char 'b' to 'y'
* owner : Shreya Kailas Saskar
* batch : PPA9
*/


// solution :

#include<stdio.h>
#include<conio.h>

void main()
{
	char str[50];
	int i = 0 , j , j1;

	printf("enter a string : ");
	fgets(str , sizeof(str) , stdin);

	printf("given string is %s\n",str);

	while(str[i] != '\0')
	{
		// if in given string have 'a' & 'z' then stop printing remaining string
		if(str[i] == 'a' || str[i] == 'z')
		{
			break;
		}
		printf("%c",str[i]);
		i++;
	}

	getch();
}
```

```c
/*
* Que.12: Print number of small & capital characters , digits, spaces in given string
* owner : Shreya Kailas Saskar
* batch : PPA9
*/


// solution :

#include<stdio.h>
#include<conio.h>

void main()
{
	char str[50];
	int i = 0;
	int cntsc = 0;
	int cntcc = 0;
	int cntd = 0 , cnts = 0;

	printf("enter a string : ");
	fgets(str , sizeof(str) , stdin);

	printf("given string is %s\n",str);

	while(str[i] != '\n')
	{
		if(str[i] == ' ')
		{
			cnts++;
		}

		else if(str[i] >= 'a' && str[i] <= 'z')
		{
			cntsc++;
		}

		else if(str[i] >= 'A' && str[i] <= 'Z')
		{
			cntcc++;
		}

		else if(str[i] >= '1' && str[i] <= '9')
		{
			cntd++;
		}
		i++;
	}
	printf("numbers of small alphabets are : %d\n",cntsc);
	printf("numbers of capital alphabets are : %d\n",cntcc);
	printf("numbers of digits are : %d\n",cntd);
	printf("numbers of spaces are : %d\n",cnts);
	getch();
}
```

```c
/*
* Que.13: Count number white spaces in given string
* owner : Shreya Kailas Saskar
* batch : PPA9
*/


// solution :

#include<stdio.h>
#include<conio.h>

void main()
{
	char str[50];
	int i;
	int cnt = 0;

	printf("enter a string : ");
	fgets(str , sizeof(str) , stdin);

	printf("given string is %s",str);

	for(i = 0 ; str[i] != '\0' ; i++)
	{
		// here we count only spaces in given string
		if(str[i] == ' ')
		{
			cnt++;
		}
	}

	printf("number of spaces are %d",cnt);

	getch();
}
```

```c
/*
* Que.14: Print number of words of even and odd lenght from sentence
* owner : Shreya Kailas Saskar
* batch : PPA9
*/


// solution :

#include<stdio.h>
#include<conio.h>

void main()
{
	char str[50];
	int i = 0;
	int cnt = 0, ecnt = 0, ocnt = 0;

	printf("enter a name : ");
	fgets(str , sizeof(str) , stdin);

	printf("given string is %s\n",str);

	while(str[i] != '\n')
	{
		while(str[i] == ' ')
		{
			i++;
		}
		// here we count first char to last char of the word
		cnt = 0;
		while(str[i] != ' ' && str[i] != '\n')
		{
			cnt++;
			i++;
		}
		// if char count of word is even
		if(cnt != 0)
		{
		if(cnt % 2 == 0)
		{
			ecnt++;

		}
		// if char count of word is odd
		else if(cnt % 2 != 0)
		{
			ocnt++;
		}
		}

	}
	printf("even lenght words are : %d\n",ecnt);
	printf("odd lenght words are : %d",ocnt);

	getch();
}
```

```c
/*
* Que.15: Print only last word in given sentence
* owner : Shreya Kailas Saskar
* batch : PPA9
*/


// solution :

#include<stdio.h>
#include<conio.h>

void main()
{
	char str[50],s[10];
	int i,j=0;
	int cnt = 0;

	printf("enter a string : ");
	fgets(str , sizeof(str) , stdin);

	printf("given string is %s",str);

	//here we count number of characters in last word
	for(i = 0 ; str[i] != '\n' ; i++)
	{
		cnt++;
	}

	//here we stores last word reversely in other char array
	for(i = cnt ; str[i] != ' ' ; i--)
	{
		s[j] = str[i];
		j++;
	}

	//here we print last reverse word reversely to get expected word
	for(i = j-1 ; i >= 0 ; i--)
	{
		printf("%c",s[i]);
	}

	getch();
}
```

```c
/*
* Que.16: Print position of word where position n string gives from user
* owner : Shreya Kailas Saskar
* batch : PPA9
*/


// solution :

#include<stdio.h>
#include<conio.h>

void main()
{
	char str[50];
	int i = 0, cnt = 0;
	int pw; // getting n value from user

	printf("enter a string : ");
	fgets(str , sizeof(str) , stdin);

	printf("enter position of word which you want : ");
	scanf("%d",&pw);

	while(str[i] != '\0')
	{
		while(str[i] == ' ')
		{
			i++;
		}

		if(str[i] != ' ' && str[i] != '\n')
		{
			cnt++;

		}

		while(str[i] != ' ' && str[i] != '\0')
		{
			// if we get word
			if(pw == cnt)
			{
				printf("%c",str[i]);
			}
			i++;
		}
	}

	if(pw > cnt)
		printf("given string contains only %d words",cnt);

	getch();
}
```

```c
/*
* Que.17: Convert string from upper case to lower case
* owner : Shreya Kailas Saskar
* batch : PPA9
*/


// solution :

#include<stdio.h>
#include<conio.h>

void main()
{
	char str[50];
	int i = 0;

	printf("enter a string : ");
	fgets(str , sizeof(str) , stdin);

	while(str[i] != '\0')
	{
		if(str[i] >= 'A' && str[i] <= 'Z')
		{
			str[i] = str[i] + 32;
		}
		printf("%c",str[i]);
		i++;
	}

	getch();
}
```

```c
/*
* Que.18: Toggle the cases of string
* owner : Shreya Kailas Saskar
* batch : PPA9
*/


// solution :

#include<stdio.h>
#include<conio.h>

void main()
{
	char str[50];
	int i = 0;

	printf("enter a string : ");
	fgets(str , sizeof(str) , stdin);

	while(str[i] != '\0')
	{
		if(str[i] >= 'A' && str[i] <= 'Z')
		{
			str[i] = str[i] + 32;
		}

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

		i++;
	}

	printf("%s",str);
	getch();
}
```

```c
/*
* Que.19: check string is anagram or not
* owner : Shreya Kailas Saskar
* batch : PPA9
*/


// solution :

#include<stdio.h>
#include<conio.h>

void main()
{
	char str1[20] , str2[20];
	int i = 0 , j = 0 ;
	int cnt1 = 0;
	int cnt2 = 0;
	int cnt = 0;
	char temp;

	printf("enter a string 1 : ");
	fgets(str1 , sizeof(str1) , stdin);

	printf("enter a string 2 : ");
	fgets(str2 , sizeof(str2) , stdin);

	for(i = 0 ; str1[i] != '\n' ; i++)
	{
		cnt1++;
	}
	printf("%d\n",cnt1);

	for(j = 0 ; str2[j] != '\n' ; j++)
	{
		cnt2++;
	}
	printf("%d\n",cnt2);

	if(cnt1 != cnt2)
		printf("both strings are not equal in length");

	if(cnt1 == cnt2)
	{
	//logic for str1 sorting
	for(i = 0 ; i <= cnt1 ; i++)
	{
		for(j = i + 1 ; j <= cnt1 ; j++)
		{
			if(str1[i] > str1[j])
			{
				temp = str1[i];
			    str1[i] = str1[j];
			    str1[j] = temp;
			}
		}
	}
```

```
        printf("%s",str1);

        //logic for str2 sorting
        for(i = 0 ; i <= cnt2 ; i++)
        {
                for(j = i + 1 ; j <= cnt2 ; j++)
                {
                        if(str2[i] > str2[j])
                        {
                                temp = str2[i];
                            str2[i] = str2[j];
                            str2[j] = temp;
                        }
                }
        }
        printf("%s\n",str2);

        // here we check strings are anagram or not
        i = 0;
        while(i < cnt1)
        {
                if(str1[i] == str2[i])
                {
                        cnt++;
                }
                i++;
        }
        printf("%d\n",cnt);

        if(cnt == cnt1)
                printf("strings are anagram");
        else
                printf("strings are not anagram\n");
        }

        getch();
}
```

```c
/*
* Que.20: Copy one string into another string
* owner : Shreya Kailas Saskar
* batch : PPA9
*/


// solution :

#include<stdio.h>
#include<conio.h>

void main()
{
	char str1[20] , str2[20];
	int i = 0 , cnt = 0;

	printf("enter a string : ");
	fgets(str1 , sizeof(str1) , stdin);
	// here we coping char by char in other string
	while(str1[i] != '\0')
	{
		str2[i] = str1[i];
		i++;
	}

	str2[i] = '\0';

	printf("string 1 is : %s",str1);
	printf("string 2 is : %s",str2);

	getch();
}
```

```c
/*
* Que.21: Print given string upto n number of char
* owner : Shreya Kailas Saskar
* batch : PPA9
*/


// solution :

#include<stdio.h>
#include<conio.h>

void main()
{
	char str[50];
	int i = 0, cnt = 0;
	int s;

	printf("enter a string : ");
	fgets(str , sizeof(str) , stdin);

	printf("enter position of word which you want : ");
	scanf("%d",&s);

	for(i = 0 ; str[i] != '\n' ; i++)
	{
		cnt++;
	}
	//printf("%d",cnt);

	if(s > cnt)
		printf("given string have only %d positions !!in your extra positions may
be garbage values \n",cnt);

	// here we print string upto n char
	i = 0;
	while(i <= s)
	{
		printf("%c",str[i]);
		i++;

	}

	getch();
}
```

```c
/*
* Que.22: Copy last n char into another string
* owner : Shreya Kailas Saskar
* batch : PPA9
*/


// solution :

#include<stdio.h>
#include<conio.h>

void main()
{
	char str1[50] , str2[50] ;
	int i = 0 , j = 0, s;
	int cnt = 0,temp,cnt1 = 0,cnt2 = 0;

	printf("Enter a string: ");
	fgets(str1 , sizeof(str1) , stdin);

	printf("enter how many last n char you want have in another string : ");
	scanf("%d",&s);

	cnt = 0;
	while(str1[i] != '\n')
	{
		while(str1[i] == ' ')
		{
			i++;
		}
		while(str1[i] != ' ' && str1[i] != '\n')
		{
		cnt = i;
		i++;
		}
	}
	for(i = 0 ; str1[i] != '\n' ; i++)
	{
		if(str1[i] != ' ')
			cnt2++;
	}

	if(s > cnt2)
		printf("given string have only %d char. you can not enter more then
%d",cnt2,cnt2);
	//here we find last n char in given string
	else
	{
	i = cnt ;
	cnt1 = 1;
	while(i >= 0)
	{
		while(str1[i] == ' ')
		{
			i--;
		}
```

```
                while(str1[i] != ' ' )
                {
                if(cnt1 <= s)
                {
                temp = i;
                }
                cnt1++;
                i--;
                }
        }
        //here we copy last n characters in another string
        while(temp <= cnt)
        {
                str2[j] = str1[temp];
                temp++;
                j++;
        }
        str2[j] = '\0';

        printf("%s",str2);
        }

        getch();
}
```

```c
/*
* Que.23: Append 2nd string after 1st string
* owner : Shreya Kailas Saskar
* batch : PPA9
*/


// solution :

#include<stdio.h>
#include<conio.h>

void main()
{
	char str1[40] , str2[20];
	int i = 0, cnt = 0 , s;

	printf("enter a 1st string : ");
	fgets(str1 , sizeof(str1) , stdin);

	printf("enter a 2nd string : ");
	fgets(str2 , sizeof(str2) , stdin);

	for(i = 0 ; str1[i] != '\n' ; i++)
	{
		cnt++;
	}
	//printf("%d",i);

	for(i = 0 ; str2[i] != '\n' ; i++)
	{
		;
	}
	//printf("%d",i);

	s = cnt + i;

	//printf("%d",cnt);
	// here we add second string after first string
	i = 0;
	while(i != s)
	{
		str1[cnt] = str2[i];
		i++;
		cnt++;

	}

	printf("%s",str1);

	getch();
}
```

```c
/*
* Que.24: Append n char of 2nd string after 1st string
* owner : Shreya Kailas Saskar
* batch : PPA9
*/


// solution :

#include<stdio.h>
#include<conio.h>

void main()
{
	char str1[40] , str2[20];
	int i = 0, cnt = 0 , s;
	int p;

	printf("enter a 1st string : ");
	fgets(str1 , sizeof(str1) , stdin);

	printf("enter a 2nd string : ");
	fgets(str2 , sizeof(str2) , stdin);

	printf("enter position you want to append 2nd string after 1st : ");
	scanf("%d",&p);

	for(i = 0 ; str1[i] != '\n' ; i++)
	{
		cnt++;
	}

	if(p <= cnt)
	{
	s = cnt + (p-1);
	// here we add n char of second string after first string
	i = 0;
	while(i <= s)
	{
		str1[cnt] = str2[i];
		i++;
		cnt++;

	}
	str1[i]='\0';

	printf("%s",str1);
	}
	else
		printf("2nd string contains only %d char\n",cnt);

	getch();
}
```

```c
/*
* Que.25: Check both strings are equal or not if not then print diff bet 1st mismatch
char
* owner : Shreya Kailas Saskar
* batch : PPA9
*/

// solution :

#include<stdio.h>
#include<conio.h>

void main()
{
	char str1[20] , str2[20];
	int i = 0;
	int cnt1 = 0 ,cnt2 = 0 , cnt = 0;

	printf("enter a 1st string : ");
	fgets(str1 , sizeof(str1) , stdin);
	printf("enter a 2nd string : ");
	fgets(str2 , sizeof(str2) , stdin);

	for(i = 0 ; str1[i] != '\n' ; i++)
	{
		cnt1++;
	}
	for(i = 0 ; str2[i] != '\n' ; i++)
	{
		cnt2++;
	}
	// here we check both strings are equal or not
	for(i = 0 ; i != cnt1 ; i++)
	{
		if(str1[i] == str2[i])
			cnt++;
	}
	if(i == cnt && cnt1 == cnt2)
		printf("both strings are equal");
	else
	{
	i = 0;
	cnt2 = 0;
	while(str1[i] == str2[i])
	{
		cnt2++;
		i++;
	}
	i = str1[cnt2] - str2[cnt2]; // here diff bet first mismatch char of both strings
	if(-i == -i)
		i = -i;
	printf("difference between first mismatch char %c and %c is
%d",str1[cnt2],str2[cnt2],i);
	}
	getch();
}
```

```c
/*
* Que.26: Check both strings are equal or not upto n char if not then print diff bet 1st
mismatch char
* owner : Shreya Kailas Saskar
* batch : PPA9
*/


// solution :

#include<stdio.h>
#include<conio.h>

void main()
{
	char str1[20] , str2[20];
	int i = 0 , s;
	int cnt1 = 0 ,cnt2 = 0 , cnt = 0 , min;

	printf("enter a 1st string : ");
	fgets(str1 , sizeof(str1) , stdin);

	printf("enter a 2nd string : ");
	fgets(str2 , sizeof(str2) , stdin);

	printf("enter n th position : ");
	scanf("%d",&s);

	for(i = 0 ; str1[i] != '\n' ; i++)
	{
		cnt1++;
	}
	for(i = 0 ; str2[i] != '\n' ; i++)
	{
		cnt2++;
	}

	if(cnt1 > cnt2)
		min = cnt2;
	else
		min = cnt1;

	if(s > min)
		printf("you can check char only %d positions",min);
	// here we chech both strings are equal or not upto n char
	else
	{
	for(i = 0 ; i < s ; i++)
	{
		if(str1[i] == str2[i])
			cnt++;
	}
	if(i == cnt)
		printf("both strings are equal");
	else
	{
	i = 0;
	cnt2 = 0;
```

```
	while(str1[i] == str2[i])
	{
		cnt2++;
		i++;
	}
	i = str1[cnt2] - str2[cnt2]; //diff bet first mismatch char
	printf("difference between first mismatch char %c and %c is
%d",str1[cnt2],str2[cnt2],i);
	}

	}
	getch();
}
```

```
/*
* Que.27: Check both strings are equal or not without case sensitivity if not then print
diff bet 1st mismatch char
* owner : Shreya Kailas Saskar
* batch : PPA9
*/


// solution :

#include<stdio.h>
#include<conio.h>

void main()
{
	char str1[50] , str2[50];
	int i = 0 , s;
	int cnt1 = 0 ,cnt2 = 0 , cnt = 0 ;

	printf("enter a 1st string : ");
	fgets(str1 , sizeof(str1) , stdin);

	printf("enter a 2nd string : ");
	fgets(str2 , sizeof(str2) , stdin);

	for(i = 0 ; str1[i] != '\n' ; i++)
	{
		cnt1++;
	}
	for(i = 0 ; str2[i] != '\n' ; i++)
	{
		cnt2++;
	}
	// here we check lengths of both strings
	if(cnt1 != cnt2)
		printf("both strings are unequal due to lenght");
	else
	{
```

```
		// here we convert upper case to lower case
		for(i = 0 ; i < cnt1 ; i++)
		{
		if(str1[i] >= 'A' && str1[i] <= 'Z')
		{
			str1[i] = str1[i]+32;
		}
		}

		for(i = 0 ; i < cnt2 ; i++)
		{
		if(str2[i] >= 'A' && str2[i] <= 'Z')
		{
			str2[i] = str2[i]+32;
		}
		}
	// here we check of both strings
	for(i = 0 ; i < cnt1 ; i++)
	{
		if(str1[i] == str2[i])
			cnt++;
	}
	if(i == cnt)
		printf("both strings are equal");
	else
	{
	i = 0;
	cnt2 = 0;
	while(str1[i] == str2[i])
	{
		cnt2++;
		i++;
	}
	i = str1[cnt2] - str2[cnt2]; //diff bet first mismatch char
	printf("difference between first mismatch char is %d",i);
	}

	}
	getch();
}
```

```c
/*
* Que.28: Reverse string upto n char
* owner : Shreya Kailas Saskar
* batch : PPA9
*/


// solution :

#include<stdio.h>
#include<conio.h>

void main()
{
	char str[50];
	int i,s;
	int cnt = 0; //counter variable

	printf("enter a string : ");
	fgets(str , sizeof(str) , stdin);

	printf("enter a position you want reverse the given string : ");
	scanf("%d",&s);

	for(i = 0 ; str[i] != '\n' ; i++)
	{
		cnt++;
	}

	if(s > cnt)
		printf("lenght of string is only %d remaing string prints may be garbage
value",cnt);
	// here we reverse the string up to n char
	for(i = s-1 ; i >= 0 ; i--)
	{
		printf("%c",str[i]);
	}
	for(i = s ; str[i] != '\0' ; i++)
	{
		printf("%c",str[i]);
	}

	getch();
}
```

```c
/*
* Que.29: in given range reverse the string
* owner : Shreya Kailas Saskar
* batch : PPA9
*/


// solution :

#include<stdio.h>
#include<conio.h>

void main()
{
	char str[50];
	int i,s1 , s2;
	int cnt = 0; //counter variable

	printf("enter a string : ");
	fgets(str , sizeof(str) , stdin);

	printf("enter range : ");
	scanf("%d",&s1);
	printf("enter range : ");
	scanf("%d",&s2);

	for(i = 0 ; str[i] != '\n' ; i++)
	{
		cnt++;
	}

	if(s2 > cnt)
		printf("lenght of string is only %d remaing string prints may be garbage
value",cnt);

	for(i = 0 ; i <= s1-1 ; i++)
	{
		printf("%c",str[i]);
	}
	//here we print the reverse string range starting
	for(i = s2 ; i >= s1 ; i--)
	{
		printf("%c",str[i]);
	}
	//here we print the reverse string last range
	for(i = s2+1 ; str[i] != '\0' ; i++)
	{
		printf("%c",str[i]);
	}

	getch();
}
```

```c
/*
* Que.30: Reverse the even lenght word from sentence
* owner : Shreya Kailas Saskar
* batch : PPA9
*/


// solution :

#include<stdio.h>
#include<conio.h>

void main()
{
	char str[50];
	int i = 0 , j ,k;
	int cnt = 0;

	printf("enter a string : ");
	fgets(str , sizeof(str) , stdin);

	while(str[i] != '\n')
	{
		//logic for skip spaces
		while(str[i] == ' ')
		{
			i++;
		}
		j = i;
		cnt = 0;
		//if string is char then count how many char in one word
		while(str[i] != ' ' && str[i] != '\n')
		{
			cnt++;
			i++;
		}
		k = i-1;
		//if count of word is even print reverse the word
	 if(cnt != 0)
		{
		if(cnt % 2 == 0)
		{
			while(k >= j && str[k] != '\n')
		{
			printf("%c",str[k]);
			k--;
		}
			printf(" ");
		}
		//if count of word is odd print the word as it is
		else if(cnt % 2 != 0)
		{
			while(j <= k && str[j] != '\n')
		{
			printf("%c",str[j]);
			j++;
		}
			printf(" ");
```

```
                }
                }

        }

        getch();
}
```

```c
/*
* Que.31: Check given string is pallindrome or not
* owner : Shreya Kailas Saskar
* batch : PPA9
*/


// solution :

#include<stdio.h>
#include<conio.h>

void main()
{
	char str1[50] , str2[50];
	int i,j,s = 0;
	int cnt = 0; //counter variable

	printf("enter a string : ");
	fgets(str1 , sizeof(str1) , stdin);

	//here we find lenght of given string
	for(i = 0 ; str1[i] != '\n' ; i++)
	{
		cnt++;
	}

	//here we copy given string into another string
	for(i = 0 ; str1[i] != '\0' ; i++)
	{
		str2[i] = str1[i];
	}
	str2[i] = '\0';

	//here logic of pallindrome
	j = 0;
	for(i = cnt-1 ; i >= 0 ; i--)
	{
		if(str2[j] == str1[i])
		{
			s++;
		}
		j++;
	}

	//here we check string is pallindrome or not
	if(s == j)
		printf("\nstring is pallindrome");
	else
		printf("\nstring is not pallindrome");
	getch();
}
```