

40. Write a program in C++ to accept string display its length.

```
#include<iostream.h>
#include<conio.h>
#include<string.h>
void main()
{
clrscr();
char nm[40];
cout<<"Enter your name"<<endl;
cin.getline(nm,40);
int l=strlen(nm);
cout<<"Length of "<<nm<<"="<<l;
getch();
}
```

```
Enter your name
Dinbandhu
Length of Dinbandhu=9_
```

41. Write a program in C++ to find out the length of given string without string library function.

```
#include<iostream.h>
#include<conio.h>
void main()
{
clrscr();
char nm[40];
cout<<"Enter your name"<<endl;
cin.getline(nm,40);
int i,l=0;
for(i=0;nm[i]!='\0';i++)
l++;
cout<<"Length of "<<nm<<"="<<l;
getch();
}
```

```
Enter your name
Dinbandhu
Length of Dinbandhu=9_
```

42. Write a program in C++ to copy a string into another string.

```
#include<iostream.h>
#include<conio.h>
#include<string.h>
void main()
{
clrscr();
char nm1[40],nm2[40];
cout<<"Enter your name"<<endl;
cin.getline(nm1,40);
strcpy(nm2,nm1);
cout<<"Given string ="<<nm1<<endl;
cout<<"copy string ="<<nm2<<endl;
getch();
}
```

```
Enter your name
RAM
Given string =RAM
copy string =RAM
```

43. Write a program in C++ to accept a string display its reverse.

```
#include<iostream.h>
#include<conio.h>
#include<string.h>
void main()
{
clrscr();
char nm1[40],nm2[40];
cout<<"Enter your name"<<endl;
cin.getline(nm1,40);
strcpy(nm2,nm1);
strrev(nm2);
cout<<"Original String = "<<nm1<<endl;
cout<<"Reverse String = "<<nm2;
getch();
}
```

```
Enter your name
Raju Kumar
Original String = Raju Kumar
Reverse String = ramuk ujaR
```

44. Write a program in C++ to accept a string display its reverse without using string library function.

```
#include<iostream.h>
#include<conio.h>
void main()
{
clrscr();
char nm[40],rev[40];
int i,j=0,len=0;
cout<<"Enter your name"<<endl;
cin.getline(nm,40);
while(nm[len]!='\0')
{
len++;
}
for(i=len-1;i>=0;i--)
{
rev[j++]=nm[i];
}
rev[j]='\0';
cout<<"Original String = "<<nm<<endl;
cout<<"Reverse String = "<<rev;
getch();}
```

```
Enter your name
RAM SITA
Original String = RAM SITA
Reverse String = ATIS MAR
```

45. Write a program in C++ to accept a string check it is palindrome or not.

```
#include<iostream.h>
#include<conio.h>
#include<string.h>
void main()
{
clrscr();
char nm[40],rev[40];
cout<<"Enter your name"<<endl;
cin.getline(nm,40);
strcpy(rev,nm);
strrev(rev);
if(strcmp(nm,rev)==0)
cout<<"Palindrome String = "<<nm<<endl;
else
cout<<"Not Palindrome String = "<<rev;
getch();
}
```

```
Enter your name
madam
Palindrome String = madam
```