PROGRAM- TO IMPLEMENT THE VARIOUS FUNCTIONS LIKE – length(), insert(), replace(), erase(), size(), begin(), end(), FOR MANIPULATING STRINGS

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//MANIPULATING STRINGS

#include<iostream>

using namespace std;

int main()

{

```
string s1("12345"), s2("abcde"), s3("pqrst"), s4("abc");

int x;

//INSERT 3=NO. OF CHARACTERS TO ESCAPE THEN PRINT s2 THEN REST OF S1

cout<<"\nINSERT -----------------------------------------------------------";

cout<<"\n s1="<<s1;

cout<<"\n s2="<<s2;

s1.insert(3, s2);

cout<<"\n"<<s1;

//ERASE 4=NO. OF CHARACTERS TO ESCAPE THEN ERASE 5 CHARACTERS AND PRINT
REST

cout<<"\n\nERASE ----------------------------------------------------------";

cout<<"\n s1="<<s1;

s1.erase(4,5);

cout<<"\n"<<s1;

//REPLACE 1=NO. OF CHARACTERS TO ESCAPE, 3=NO. OF CHARACTERS TO REPLACE
BY s1

cout<<"\n\nREPLACE --------------------------------------------------------";

cout<<"\n s3="<<s3;

cout<<"\n s2="<<s2;

s2.replace(1,3,s3);

cout<<"\n"<<s2;

//COMPARE TWO STRINGS

cout<<"\n\nCOMPARE --------------------------------------------------------";

cout<<"\n s3="<<s3;

cout<<"\n s4="<<s4;

if(s4.compare(s3)<0)
```

```cpp
        cout<<"\n"<<s4;
cout<<"\n--------------------------";
//APPEND STRING s2
cout<<"\n\nAPPEND -----------------------------------------------------------";
cout<<"\n s2="<<s2;
cout<<"\n s3="<<s3;
s2.append(s3);
cout<<"\n"<<s2;
//LENGTH STRING s2
cout<<"\n\nLENGTH ---------------------------------------------------------";
cout<<"\n s2="<<s2;
x = s2.length();
cout<<"\n"<<x;
//SIZE STRING s2
cout<<"\n\nSIZE -------------------------------------------------------";
cout<<"\n s2="<<s2;
x = s2.size();
cout<<"\n"<<x;
//FIND in STRING s2
cout<<"\n\nFIND ---------------------------------------------------------";
cout<<"\n s2="<<s2;
x = s2.find(s3);
cout<<"\n"<<x;
x = s2.find(s1);
cout<<"\n"<<x;
//SWAP in STRING s2
cout<<"\n\nSWAP ----------------------------------------------------------";
cout<<"\n s2="<<s2;
s2.swap(s3);
cout<<"\n"<<s2;
//BEGIN & END in STRING s2
cout<<"\n\nBEGIN & END ---------------------------------------------------------------";
cout<<"\n"<<s1;
string s5(s1.begin()+2, s1.end());
```

```cpp
        cout<<"\n"<<s5;

        return 0;

}
```

OUTPUT –

```
INSERT -------------------------------------------------------------
 s1=12345
 s2=abcde
123abcde45

ERASE --------------------------------------------------------------
 s1=123abcde45
123a5

REPLACE ------------------------------------------------------------
 s3=pqrst
 s2=abcde
apqrste

COMPARE ------------------------------------------------------------
 s3=pqrst
 s4=abc
abc
--------------------------

APPEND -------------------------------------------------------------
 s2=apqrste
 s3=pqrst
apqrstepqrst

LENGTH -------------------------------------------------------------
 s2=apqrstepqrst
12

SIZE ---------------------------------------------------------------
 s2=apqrstepqrst
12

FIND ---------------------------------------------------------------
 s2=apqrstepqrst
1
-1

SWAP ---------------------------------------------------------------
 s2=apqrstepqrst
pqrst

BEGIN & END --------------------------------------------------------
```

```
BEGIN & END --------------------------------------------------------
123a5
3a5
--------------------------
Process exited after 3.789 seconds with return value 0
Press any key to continue . . .
```