#include<iostream>

using namespace std;

int main()

{

char ch;

cout<<"Enter char ";

cin>>ch;

cout<<"\nchar is "<<ch<<endl;

return 0;

}

……………..

/// initialization of string and character array

#include<iostream>

using namespace std;

int main()

{

char ch[6] = "ALLAH";

//char ch[5] = {'A','L','L','A','H'};

//cout<<"Enter char ";

//cin>>ch;

cout<<"\nChar is "<<ch[5]<<endl;

cout<<"\nString is "<<ch<<endl;

return 0;

}

………………

/// input the string and finds its length

#include<iostream>

using namespace std;

int main()

{

const int SIZE = 50;

char str[SIZE];

cout<<"Enter string ";

cin.getline(str,SIZE);

int i = 0;

while(str[i] != '\0')

{

i++;

}

/\*int i;

for(i = 0; str[i] != '\0'; i++)

{

}

\*/

cout<<"\nString is "<<str<<" with length "<<i<<endl;

return 0;

}

…………….

/// input the string and copy it into another c-string variable.

#include<iostream>

using namespace std;

int main()

{

const int SIZE = 50;

char str1[SIZE];

char str2[SIZE];

cout<<"Enter string ";

cin.getline(str1,SIZE);

int i;

for(i = 0; str1[i] != '\0'; i++)

{

str2[i] = str1[i];

}

str2[i] = '\0';

cout<<"\nString-1 is "<<str1<<endl;

cout<<"\nString-2 is "<<str2<<endl;

return 0;

}

……………..

#include<iostream>

using namespace std;

int main()

{

const int SIZE = 500;

char str1[SIZE] = "A computer is a machine that can be programmed to carry out sequences of arithmetic or logical operations (computation) automatically 0. Modern digital electronic computers can perform generic sets of operations known as programs.";

int i, upper = 0, lower = 0, digits = 0, special = 0;

for( i = 0; str1[i]!='\0';i++)

{

if(str1[i] >= 'A' && str1[i] <= 'Z')

upper++;

else if (str1[i] >= 'a' && str1[i] <= 'z')

lower++;

else if (str1[i] >= '0' && str1[i] <= '9')

digits++;

else

special++;

}

cout<<"\nUpper Characters = "<<upper<<endl;

cout<<"Lower Characters = "<<lower<<endl;

cout<<"Digits = "<<digits<<endl;

cout<<"Special Characters = "<<special<<endl;

return 0;

}………

/// input the string and finds upper, lower and special character

#include<iostream>

using namespace std;

int main()

{

const int SIZE = 500;

char str[SIZE] = "A computer, is a machine that can be programmed to carry out sequences of arithmetic or logical operations (computation) automatically And price is 100 rupes.";

/\*cout<<"Enter string ";

cin.getline(str,SIZE);\*/

int vowel = 0;

int i;

while(str[i] != '\0')

{

switch(str[i])

{

case 'A':

case 'a':

case 'E':

case 'e':

case 'I':

case 'i':

case 'O':

case 'o':

case 'U':

case 'u':

vowel++;

}

i++;

}

cout<<"\nvowel letter "<<vowel<<endl;

return 0;

}

…………………………..

///count total words from the string

#include<iostream>

using namespace std;

int main()

{

const int SIZE = 500;

char str1[SIZE] = "A computer is a machine";

int i, words = 0;

for( i = 0; str1[i]!='\0';i++)

{

if(str1[i] == ' ')

words++;

}

words++;

cout<<"\nTotals words in the string = "<<words<<endl;

return 0;

}……………………………

/// input the strings and concate them

#include<iostream>

using namespace std;

int main()

{

const int SIZE = 500;

char str1[SIZE] = "BSCS 1st";

char str2[SIZE] = "Regular";

int i;

while(str1[i] != '\0')

{

i++;

}

str1[i++] = ' ';

int j = 0;

while(str2[j] != '\0')

{

str1[i] = str2[j];

i++;

j++;

}

str1[i] = '\0';

cout<<"\nNew String is "<<str1<<endl;

return 0;

}

………………..

///count total words from the string

#include<iostream>

using namespace std;

int main()

{

const int SIZE = 500;

char str1[SIZE] = "BSCS 1st";

char str2[SIZE] = "Regular 2023-204";

char str3[SIZE];

int i, j, k = 0;

for( i = 0; str1[i]!='\0';i++)

{

str3[k] = str1[i];

k++;

}

str3[k++] = ' ';

for( j = 0; str2[j]!='\0';j++)

{

str3[k] = str2[j];

k++;

}

str3[k] = '\0';

cout<<"\nThe new string = "<<str3<<endl;

return 0;

}

………

/// input the different string and print it on the screen

#include<iostream>

using namespace std;

int main()

{

const int SIZE = 500;

//char str[3][SIZE] = {"Ali", "Kashif","Aslam"};

char str[3][SIZE];/// = {"Ali", "Kashif","Aslam"};

for(int i = 0; i<3; i++)

{

cout<<"Enter Name ";

//cin>>str[i];

cin.getline(str[i],SIZE);

}

for(int i = 0; i<3; i++)

{

cout<<"Name is "<<str[i]<<endl;

}

return 0;

}

………….

///count total words from the string

#include<iostream>

using namespace std;

int main()

{

const int SIZE = 500;

char str[3][SIZE] = {"Ali Khan", "Kashif Mehmood", "ayesha Bibi"};

/\*for( int i = 0; i<3; i++)

{

cout<<"Enter name ";

// cin>>str[i];

cin.getline(str[i], SIZE);

}\*/

cout<<endl;

for( int j = 0; j<3 ;j++)

{

if(str[j][0] == 'A' || str[j][0] == 'a')

cout<<"String is "<<str[j]<<endl;

}

return 0;

}

///count total words from the string

#include<iostream>

#include<string.h>

using namespace std;

int main()

{

const int SIZE = 500;

char str1[SIZE] = "BSCS 1st Regular";

char str2[SIZE];

char str3[SIZE];

cout<<"\nstring-1 is "<<str1<<" with length "<<strlen(str1)<<endl;

cout<<"string-2 is "<<strcpy(str2, str1)<<endl;

//if(strlen(str1) + >= )

strcpy(str3, str1);

strcat(str3," ");

strcat(str3, str2);

cout<<"string-3 is "<<str3<<endl;

if(strcmp(str1, str2) == 0)

cout<<"boths are equal"<<endl;

else if(strcmp(str1, str2) == 1)

cout<<"string-1 is largest string"<<endl;

else ///if(strcmp(str1, str2) == -1)

cout<<"string-2 is largest string"<<endl;

return 0;

}