**Task #01**

**Source Code:**

#include <iostream>

using namespace std;

bool comp(string t1,string t2);

string inp[]={"int","a","=","string const"};

string T1;

string T2;

int j=0;

int main()

{

if (inp[j]=="int"||inp[j]=="float"||inp[j]=="char"||inp[j]=="string")

{

T1=inp[j];

j++;

if (inp[j]=="a")

{

j++;

if (inp[j]=="=")

{

j++;

if (inp[j]=="char const"||inp[j]=="float const"||"string const"||inp[j]=="int const")

{

T2=inp[j];

if(comp(T1,T2))

{

cout<<"types are compatible";

}

else

{

cout<<"not compatible types";

}

}

}

}

}

}

bool comp(string t1,string t2)

{

if(t1=="int" && (t2=="char const"||t2=="int const"||t2=="float const"))

{

return true;

}

else if (t1=="int" && t2=="string const")

{

return false;

}

else if (t1=="float" && t2=="char const")

{

return true;

}

else if (t1=="float"&& t2=="string const")

{

return false;

}

else{

return false;

}

}

**Screenshot:**



