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***Roll No:***

***19P-018***

***Code***

#include<iostream>

using namespace std;

int main(){

string prepositionType,p;

cout<<"Enter preposition type: ";

cin>>prepositionType;

cout<<"Enter preposition: ";

cin>>p;

if(prepositionType=="implication"){

if(p[0]!='~' && p[3]!='~'){

cout<<"converse: "<<p[3]<<"->"<<p[0]<<endl;

cout<<"inverse: "<<"~"<<p[0]<<"->"<<"~"<<p[3]<<endl;

cout<<"contrapositive: "<<"~"<<p[3]<<"->"<<"~"<<p[0]<<endl;

}else if(p[0]=='~' && p[4]!='~'){

cout<<"converse: "<<p[4]<<"->"<<"~"<<p[1]<<endl;

cout<<"inverse: "<<p[1]<<"->"<<"~"<<p[4]<<endl;

cout<<"contrapositive: "<<"~"<<p[4]<<"->"<<p[1]<<endl;

}else if(p[0]!='~' && p[3]=='~'){

cout<<"converse: "<<"~"<<p[4]<<"->"<<p[0]<<endl;

cout<<"inverse: "<<"~"<<p[0]<<"->"<<p[4]<<endl;

cout<<"contrapositive: "<<p[4]<<"->"<<"~"<<p[0]<<endl;

}else if(p[0]=='~' && p[4]=='~'){

cout<<"converse: "<<"~"<<p[5]<<"->"<<"~"<<p[1]<<endl;

cout<<"inverse: "<<p[1]<<"->"<<p[5]<<endl;

cout<<"contrapositive: "<<p[5]<<"->"<<p[1]<<endl;

}

}

else if(prepositionType=="converse")

{

if(p[0]!='~' && p[3]!='~'){

cout<<"implication: "<<p[3]<<"->"<<p[0]<<endl;

cout<<"inverse: "<<"~"<<p[3]<<"->"<<"~"<<p[0]<<endl;

cout<<"contrapositive: "<<"~"<<p[0]<<"->"<<"~"<<p[3]<<endl;

}else if(p[0]=='~' && p[4]!='~'){

cout<<"implication: "<<p[4]<<"->"<<"~"<<p[1]<<endl;

cout<<"inverse: "<<p[1]<<"->"<<"~"<<p[4]<<endl;

cout<<"contrapositive: "<<"~"<<p[4]<<"->"<<p[1]<<endl;

}else if(p[0]!='~' && p[3]=='~'){

cout<<"implication: "<<"~"<<p[4]<<"->"<<p[0]<<endl;

cout<<"inverse: "<<p[4]<<"->"<<"~"<<p[0]<<endl;

cout<<"contrapositive: "<<"~"<<p[0]<<"->"<<p[4]<<endl;

}else if(p[0]=='~' && p[4]=='~'){

cout<<"implication: "<<"~"<<p[5]<<"->"<<"~"<<p[1]<<endl;

cout<<"inverse: "<<p[5]<<"->"<<p[1]<<endl;

cout<<"contrapositive: "<<p[1]<<"->"<<p[5]<<endl;

}

}

else if(prepositionType=="inverse")

{

if(p[0]!='~' && p[3]!='~'){

cout<<"implication: "<<"~"<<p[0]<<"->"<<"~"<<p[3]<<endl;

cout<<"converse: "<<"~"<<p[3]<<"->"<<"~"<<p[0]<<endl;

cout<<"contrapositive: "<<p[3]<<"->"<<p[0]<<endl;

}else if(p[0]=='~' && p[4]!='~'){

cout<<"implication: "<<p[1]<<"->"<<"~"<<p[4]<<endl;

cout<<"converse: "<<"~"<<p[4]<<"->"<<p[1]<<endl;

cout<<"contrapositive: "<<p[4]<<"->"<<"~"<<p[1]<<endl;

}else if(p[0]!='~' && p[3]=='~'){

cout<<"implication: "<<"~"<<p[0]<<"->"<<p[4]<<endl;

cout<<"converse: "<<p[4]<<"->"<<"~"<<p[0]<<endl;

cout<<"contrapositive: "<<"~"<<p[4]<<"->"<<p[0]<<endl;

}else if(p[0]=='~' && p[4]=='~'){

cout<<"implication: "<<p[1]<<"->"<<p[5]<<endl;

cout<<"converse: "<<p[5]<<"->"<<p[1]<<endl;

cout<<"contrapositive: "<<"~"<<p[5]<<"->"<<"~"<<p[1]<<endl;

}

}

else if(prepositionType=="contrapositive")

{

if(p[0]!='~' && p[3]!='~'){

cout<<"implication: "<<"~"<<p[3]<<"->"<<"~"<<p[0]<<endl;

cout<<"converse: "<<"~"<<p[0]<<"->"<<"~"<<p[3]<<endl;

cout<<"inverse: "<<p[3]<<"->"<<p[0]<<endl;

}else if(p[0]=='~' && p[4]!='~'){

cout<<"implication: "<<"~"<<p[4]<<"->"<<p[1]<<endl;

cout<<"converse: "<<p[1]<<"->"<<"~"<<p[4]<<endl;

cout<<"inverse: "<<p[4]<<"->"<<"~"<<p[1]<<endl;

}else if(p[0]!='~' && p[3]=='~'){

cout<<"implication: "<<p[4]<<"->"<<"~"<<p[0]<<endl;

cout<<"converse: "<<"~"<<p[0]<<"->"<<p[4]<<endl;

cout<<"inverse: "<<"~"<<p[4]<<"->"<<p[0]<<endl;

}else if(p[0]=='~' && p[4]=='~'){

cout<<"implication: "<<p[5]<<"->"<<p[1]<<endl;

cout<<"converse: "<<p[1]<<"->"<<p[5]<<endl;

cout<<"inverse: "<<"~"<<p[5]<<"->"<<"~"<<p[1]<<endl;

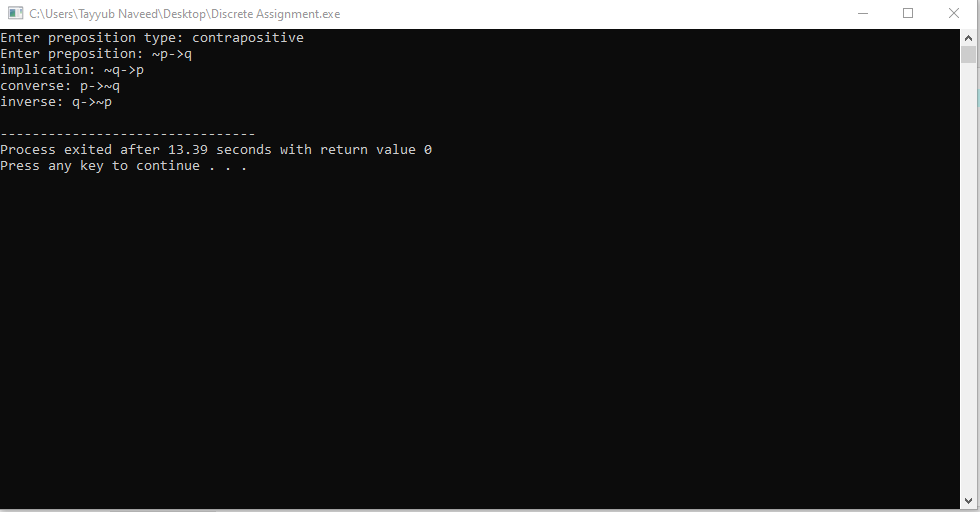
}

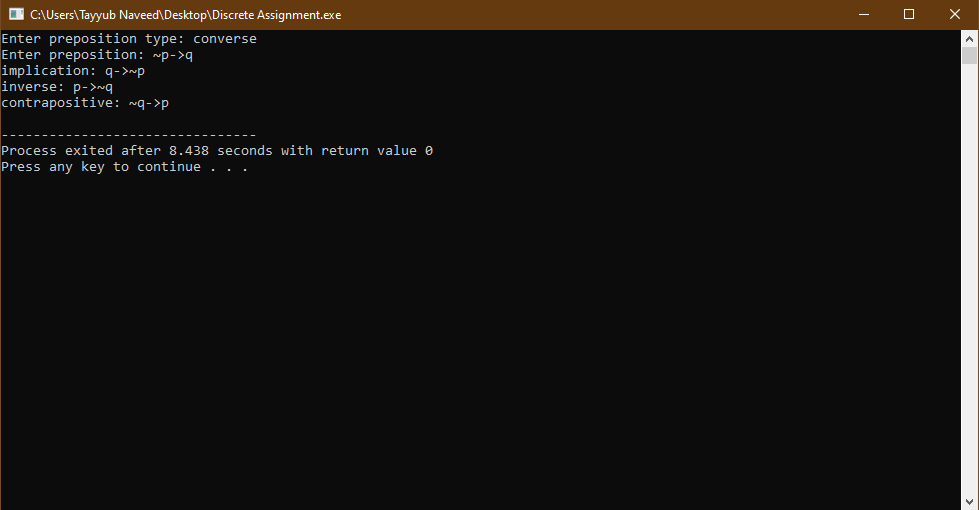
}

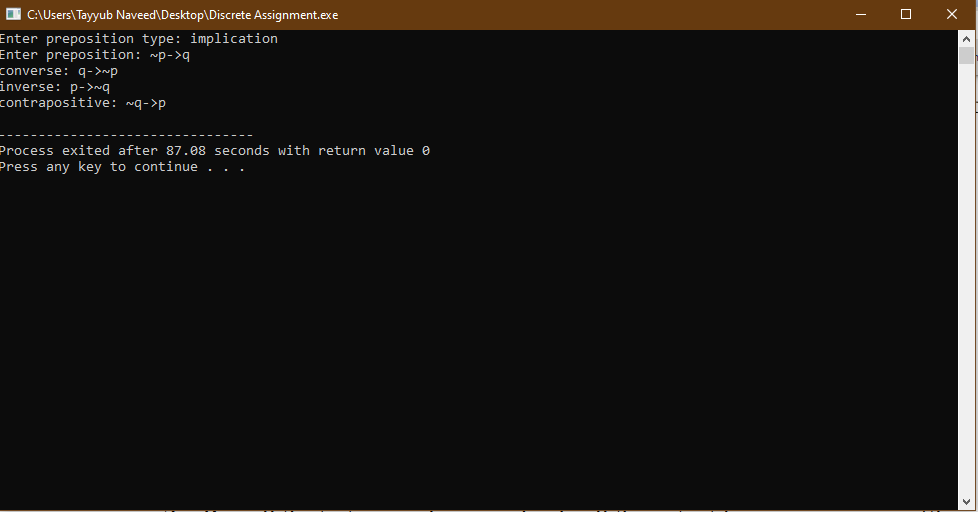
return 0;

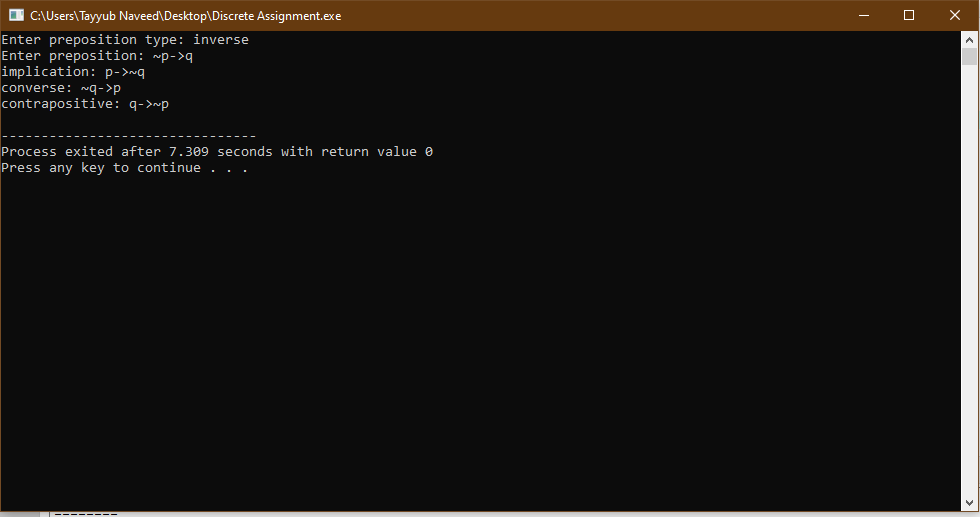
}

***ScreenShots:***

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