**Practical – 6**

**Practical Statement** : Write a program to implement digram coding for given text file

**Code:**

#include <bits/stdc++.h>

#include <cmath>

using namespace std;

int main()

{

int n;

int totalChar = 0;

string s = "";

map<string,string> map;

cout<<"190420116071 : Meet Vaghasiya"<<endl;

cout<<"Practical 6 : Write a program to implement digram coding for given text file" <<endl;

ifstream myFile("test.txt");

if(myFile.fail()){

cout<<"Error"<<endl;

return 0;

}

char c;

int count = 0;

while(myFile.get(c)){

s.push\_back(c);

}

myFile.close();

map["a"] = "000";

map["b"] = "001";

map["c"] = "010";

map["d"] = "011";

map["r"] = "100";

map["ab"] = "101";

map["ac"] = "110";

map["ad"] = "111";

int i=0;

string ans;

while(i<s.length()){

string s1 = "";

s1.push\_back(s.at(i));

if(i!=s.length()-1)

s1.push\_back(s.at(i+1));

if(map.find(s1)!=map.end()){

ans = ans + map[s1];

i = i+2;

}

else{

s1 = "";

s1.push\_back(s.at(i));

ans = ans+map[s1];

i++;

}

}

cout<<"Input String : " <<s<<endl;

cout<<"Encoded String is : "<<ans<<endl;

}

Output:

