#include <iostream>

using namespace std;

int main()

{ //Alaa Taha Hassan Ahmed

//20170057

//group 14

//assignment 2:

// number 7;

ww:

char answ;

cout<<"welcome y user \n choose what do you want ??"<<endl<<"1-cipher "<<endl<<"2-decipher"<<endl<<"3-End "<<endl;

string choiceNum;

cin>>choiceNum;

cin.ignore();

string message, newMessage, message2;

int i,k, j ;

("while (choiceNum=="1

{

qq:

newMessage="";

cout<<"Enter your message to cipher "<<endl;

cin.ignore();

getline(cin,message);

for(i=0 ; i<message.length() ; i++)

{

for (j=0 ; j<27 ; j++)

{

char str2[27]= {'a','b','c','d','e','f','g','h','i','j','k','l','m','n','o','p','q','r','s','t','u','v','w','x','y','z',' '};

char str1[27]= {'A','B','C','D','E','F','G','H','I','J','K','L','M','N','O','P','Q','R','S','T','U','V','W','X','Y','Z',' '};

string str3[27]= {" .-"," -..."," -.-."," -.."," ."," ..-."," --."," ...."," .."," .---"," -.-"," .-.."," --"," -."," ---"," .--."," --.-"," .-."," ..."," -"," ..-"," ...-"," .--"," -..-"," -.--"," --.."," "};

if (message[i]==a[j]|| message[i]==A[j] )

{

newMessage=newMessage+U[j];

{{ }

cout<<newMessage<<endl;

cout << "do you want to cipher again ?<Y/N>" << endl;

cin >> answ;

answ = toupper(answ);

if(answ == 'Y')

goto qq;

if(answ == 'N')

goto ww; }

//Decipher

while (choiceNum=="2")

{

rr:

cout<<"Enter your message/s to decipher :"<<endl;

string str3[28]= {".-","-...","-.-.","-..",".","..-.","--.","....","..",".---","-.-",".-..","--","-.","---",".--.","--.-",".-.","...","-","..-","...-",".--","-..-","-.--","--.."," "," "};

char str1[28]= {'A','B','C','D','E','F','G','H','I','J','K','L','M','N','O','P','Q','R','S','T','U','V','W','X','Y','Z',' ',' '};

getline(cin,message);

string t="";

for(k=0 ; k<message.length() ; ++k)

{

if(message[k]==' ')

{

for(int j=0; j<28; ++j)

{

if(t==str3[j])

{

cout<<str1[j];

t="";

}

}

if(message[k]!=' ')

{

t=t+message[k];

}

}

for(int j=0; j<28; ++j)

{

if(t==str3[j])

{

cout<<str1[j];

t="";

}

}

cout<<endl;

cout << "do you want to cipher again ?<Y/N>" << endl;

cin >> answ;

answ = toupper(answ);

if(answ == 'Y')

goto rr;

if(answ == 'N')

goto ww;

}

return 0 ;

}

//group 14:

// assignment 2 :

//ID1:20170284

//ID2:20170057

// mas2ala bta3t el group :

int main()

{

int n;

char answer = ' ';

cout <<" would you like to covert numbers ?(Y/N): ";

cin >> answer;

answer = toupper(answer);

if(answer == 'Y')

{

again:

cout<<endl;

cout << "Enter the number: ";

while(cin>>n)

{

int i,j,k,l;

l=(n/1000)\*1000;

if(l==1000)

cout<<"M";

if(l==2000)

cout<<"MM";

if(l==3000)

cout<<"MMM";

if(l==4000)

cout<<"-IV";

if(l==5000)

cout<<"-V";

if(l==6000)

cout<<"-VI";

if(l==7000)

cout<<"-VII";

if(l==8000)

cout<<"-VIII";

if(l==9000)

cout<<"-IX";

if(l==10000)

cout<<"-X";

k=(n%1000);

k=(k/100)\*100;

if (k == 100)

cout<<"C";

else if (k == 200)

cout<<"CC";

else if (k == 300)

cout<<"CCC";

else if (k == 400)

cout<<"CD";

else if (k ==500)

cout<<"D";

else if (k == 600)

cout<<"DC";

else if (k == 700)

cout<<"DCC";

else if (k ==800)

cout<<"DCCC";

else if (k == 900)

cout<<"CM";

k=n%1000;

l=k%100;

j=(l/10)\*10;

if (j == 10)

cout<<"X";

else if (j == 20)

cout<<"XX";

else if (j == 30)

cout<<"XXX";

else if (j == 40)

cout<<"XL";

else if (j ==50)

cout<<"L";

else if (j == 60)

cout<<"LX";

else if (j == 70)

cout<<"LXX";

else if (j ==80)

cout<<"LXXX";

else if (j == 90)

cout<<"XC";

i=l%10;

if (i == 1)

cout<<"I";

else if (i == 2)

cout<<"II";

else if (i == 3)

cout<<"III";

else if (i == 4)

cout<<"IV";

else if (i ==5)

cout<<"V";

else if (i == 6)

cout<<"VI";

else if (i == 7)

cout<<"VII";

else if (i ==8)

cout<<"VIII";

else if (i == 9)

cout<<"IX";

cout<<endl;

cout <<"Would you like to try again?(Y/N): ";

cin >> answer;

answer = toupper(answer);

if(answer == 'Y' )

{

goto again;

}

else if(answer == 'N')

{

return 0;

}

}

}

return 0;

}

//problem of book

//Alaa taha hassan ahmed

//20170057

#include <iostream>

using namespace std;

int main(){

float v,f, r ,y ,pie =3.14 ;

cout <<"enter the radius of sphere and the weight y kbeer" <<endl;

cin >> r>>y;

v=(1.333)\*pie\*(r\*r\*r);

cout <<"volume ="<<v<<endl;

f=v\*y;

cout <<"force = "<<f<<endl;

if (f>=y)

cout <<"it will float" <<endl ;

else

cout<<"it will sink " <<endl;

return 0;}