Q1

#include <stdio.h>

#include <iostream>

using namespace std;

template<class T>

T minimum(const T& a, const T& b)

{

if(a>b)

{

return b;

}

else

{

return a;

}

}

int main()

{

int x = 3;

int y = 4;

int z;

z=minimum<int>(x,y);

cout<<z<<endl;

return 0;

}

Q2

#include <stdio.h>

#include <iostream>

using namespace std;

string myfunc()

{

string x;

x="hello";

return x;

}

int main()

{

string mtemp;

mtemp=myfunc();

cout<<mtemp;

return 0;

}

Q4

#include <stdio.h>

#include <iostream>

using namespace std;

class myarray

{

private:

int val;

int \*p;

int size;

public:

myarray();

~myarray();

void setval(int val, int index);

int getval(int index);

void myfunc();

};

myarray::myarray()

{

val=0;

size=0;

p=new int [size];

}

myarray::~myarray()

{

delete p;

}

void myarray::setval(int xval, int index)

{

int y;

if(index>size)

{

y=(index-size)+1;

y=size+y;

size=y;

}

val=xval;

myfunc();

p[index]=val;

}

int myarray::getval(int index)

{

int x;

x=index;

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

{

cout<<p[i]<<endl;

}

cout<<"Size: "<<size<<endl;

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

{

if(i==x)

{

return p[i];

}

}

}

void myarray::myfunc()

{

int \*q=new int [size];

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

{

q[i]=p[i];

}

delete [] p;

p=q;

}

int main()

{

myarray obj;

obj.setval(6,2);

obj.setval(3,0);

obj.setval(5,1);

int y;

y=obj.getval(2);

cout<<y<<endl;

}

Q7

#include<iostream>

using namespace std;

class dy

{

private:

int mm;

int dd;

public:

void setmm(int m)

{

mm=m;

}

void setdd(int d)

{

dd=d;

}

int getmm()

{

return mm;

}

int getdd()

{

return dd;

}

};

class time1

{

private:

int hh;

int min;

int ss;

public:

void sethh(int h)

{

hh=h;

}

void setmin(int mn)

{

min=mn;

}

void setss(int s)

{

ss=s;

}

int gethh()

{

return hh;

}

int getmin()

{

return min;

}

int getss()

{

return ss;

}

};

class td : public time1, public dy

{

private:

int year;

public:

void setyr(int year1);

int getyr()

{

return year;

}

};

void td :: setyr(int year1)

{

year=year1;

}

int main()

{

td myobj;

int year2;

myobj.setdd(9);

myobj.setmm(4);

myobj.sethh(6);

myobj.setmin(32);

myobj.setss(13);

cin>>year2;

myobj.setyr(year2);

cout<<myobj.getyr()<<" "<<myobj.getmm()<<" "<<myobj.getss();

}