7)**Write a program to overload array subscript [] operator**

//program to overload array subscript operator ([])

#include<iostream>

#include<stdlib.h>

using namespace std;

class Array

{

int num[10];

int siz;

public:

void setArray()

{

cout<<"Enter size of array\n"<<endl;

cin>>siz;

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

{

cin>>num[i];

}

}

int& operator[](int x)

{

if(x>=siz)

{

cout<<"array out of bounds"<<endl;

exit(0);

}

else{

return num[x-1];

}

}

void disp()

{

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

{

cout<<num[i]<<endl;

}

}

};

int main()

{

Array a;

a.setArray();

int x=a[3];

cout<<"x= "<<x<<endl;

a.disp();

return 0;

}

OUTPUT:

