**Assignment 3**

R6.3

vector<double> numbers;

int i;

double max;

double min;

max=0;

min=0;

for( i=0;i<numbers.size();i++)

{

if(numbers[i]>max)

max=numbers[i];

if(numbers[i]<min)

min=number[i];

}

cout<<” the maximum is :”<<max<<”.”<<the minimum is :”<<min<<”.”<<endl;

R6.8

vector<double> numbers;

double n;

for (int i=0;i<10;i++)

{

cin>>n;

numbers.push\_back(n);

}

for( int j=9;j>=0;j--)

{

cout<<number[j];

}

R6.9

a.

int n;

void nextyear(vector<int> year)

{

n=year[i+1];

}

This function assigned the value of the vector year at the location of “i+1”. This function is passed by value.

b.

void studentID(vector<int> &ID)

{

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

cout<<ID[i]<<endl;

}

This function has a “&” sign which tells it is passed by reference and this function works to print all the elements in the vector ID to console.

c.

vector<int> password;

int Addpassword(int i)

{

password.push\_bakc(i);

return password;

}

This function adds a new integer to the password vector and it returns the new vector.

R 6. 13

Assume that the v is sorted due to employees’ ages.

1. Set up a for loop of v.size() times to perform the comparison between the new employee’s age to all of the other employees’ ages.
2. Create two new vectors a and b.
3. Insert all the employee’s ages above the new employee’s age into vector a.
4. Insert all the employee’s ages below the new employee’s age into vector b.
5. Insert the new employee’s age at the end of the vector a.
6. Then do a kind of “addition” between a and b to create a new vector c. Vector c is the new sorted vector with the new employee’s age in it.

R 6. 15

1. // this function will return false if these two vectors do not contain the same elements in the same order

bool eq=true;

bool equal(vector<int> a, vector<int>b)

for(i=0;i<a.sezi();i++)

{

while(a[i]!=b[i])

eq=false;

return eq;

}

1. //Eeach time copy two elements.

// Copy vector a to vector b.

for(i=0;i<a.size()-1;i=i+2)

b[i]=a[i];

b[i+1]=a[i+1]

1. //Assign zero to every element in vector a.

for(i=0;i<a.size();i++)

a[i]=0;

1. //Remove all the values in vector a

a.clear();