Q1:

#include <iostream>

using namespace std;

bool isVowel(char letter);

int main()

{

char userChar;

cout << "Please enter a character: ";

cin >> userChar;

if (isVowel(userChar))

cout << userChar << " is a vowel" << endl;

else

cout << userChar << " is not a vowel" << endl;

return 0;

}

bool isVowel(char letter) {

switch (letter) {

case 'a':

case 'e':

case 'i':

case 'o':

case 'u':

return true;

default:

return false;

}

}

Please enter a character: a

a is a vowel

Please enter a character: c

c is not a vowel

Q2:

#include <iostream>

using namespace std;

int main() // main function

{

int number, reverseNumber = 0, reminder; //varible declaration

cout << "Enter a number: "; //prompt user to enter the number

cin >> number; //save the entered number into number variable

while(number!=0) //while number does not become zero.... remain in loop

{

reminder = number % 10; // taken reminder of number

reverseNumber = reverseNumber\*10+reminder; //store the number digit into reverse order

number /=10; //decrease the number or shift the division to next digit

}

cout << "Reversed Number: " << reverseNumber << endl; //print reversed number.

return 0;

}

Enter a number: 12345

Reversed Number: 54321

Enter a number: 5600

Reversed Number: 65

Enter a number: 7008

Reversed Number: 8007

Enter a number: -532

Reversed Number: -235

Q3:

#include <iostream>

#include <string>

using namespace std;

string vowels = "aeiou";

bool is\_vowel(char c){

for(int i = 0; i < vowels.length(); i++){

if(c == vowels[i]) return true;

}

return false;

}

string remove\_vowels(string str){

string temp = "";

for(int i = 0; i < str.length(); i++){

if(!is\_vowel(str[i])) temp += str.substr(i,1);

}

str = temp;

return str;

}

int main(){

string str = "There";

cout<<"Input string: ";

cin>>str;

cout<<remove\_vowels(str);

return 0;

}

Input string: There

Thr%

Q4:

#include <iostream>

using namespace std;

void makeArray(double arr[]) {

for(int i = 0; i < 50; ++i) {

if(i < 25) {

arr[i] = i\*i;

} else {

arr[i] = 3\*i;

}

}

}

void outputArray(double arr[]) {

for(int i = 0; i < 50; ++i) {

cout << arr[i] << "\t";

if((i+1)%10 == 0) {

cout << endl;

}

}

}

int main() {

double arr[50];

makeArray(arr);

outputArray(arr);

return 0;

}

0 1 4 9 16 25 36 49 64 81

100 121 144 169 196 225 256 289 324 361

400 441 484 529 576 75 78 81 84 87

90 93 96 99 102 105 108 111 114 117

120 123 126 129 132 135 138 141 144 147