1)

There are 2 possibilities, considering if the programmer wants to return the value, or not.

Void functions doesn't allow to return values in the end. Void means there is no return type.

If there is a return value the function type is wrong.

Solution 1:
```
int myfunction (int x, int y)
{
   cout << x*y;
   return (x*y);
}
```

Solution 2:
```
void myfunction (int x, int y)
{
   cout << x*y;
}
```

2)

Error:
```
void myfunction (int x, y)
    return (x*y);
```

Type of the variable y is not declared.

Void means a function without a return type.

Solution 1:
```
void myfunction (int x, int y)
```

Solution 2:
```
int myfunction (int x, int y)
    return (x*y);
```

3)

a) Type of the variable y is not declared.

b) The semicolon is missing.

c) Void is not a variable type, void is a function which doesn’t have a return type.

4)

Result= -1

5)

The max value is 4

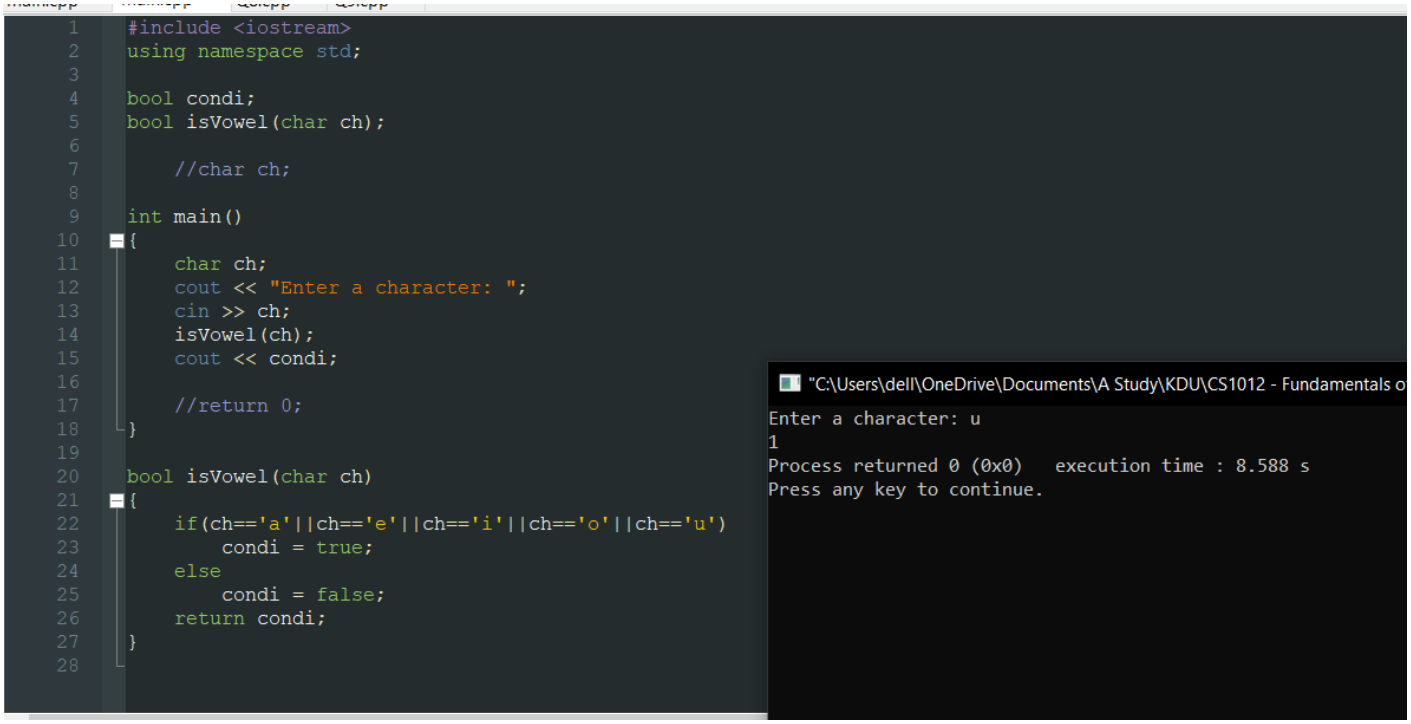
6)

a) Result= 9

b) Result= 0.111111

7)

```
bool isVowel(char ch)
{
   if(ch=='a'||ch=='e'||ch=='i'||ch=='o'||ch=='u')
      condi = true;
   else
      condi = false;
   return condi;
}
```



```
#include <iostream>
using namespace std;

bool condi;
bool isVowel(char ch);

    //char ch;

int main()
{
    char ch;
    cout << "Enter a character: ";
    cin >> ch;
    isVowel(ch);
    cout << condi;

    //return 0;
}

bool isVowel(char ch)
{
    if(ch=='a'||ch=='e'||ch=='i'||ch=='o'||ch=='u')
        condi = true;
    else
        condi = false;
    return condi;
}
```

```
"C:\Users\dell\OneDrive\Documents\A Study\KDU\CS1012 - Fundamentals o
Enter a character: u
1
Process returned 0 (0x0)   execution time : 8.588 s
Press any key to continue.
```

8)

```
#include <iostream>

using namespace std;


int sum_from_to(int first,int last);

int sum;


int main()

{

   int first,last;


   cout << "Enter the first number : ";

   cin >> first;
```

```
    cout << "Enter the last number : ";
    cin >> last;
    sum_from_to(first,last);
    cout << "\nsum from "<<first<<" to "<<last<<" is "<<sum<< endl;

    return 0;
}

int sum_from_to(int first,int last)
{
    if(first<last)
    {
        for(int i=first; i<=last; i++)
        {
            sum += i;
        }
    }
    else
    {
        for(int i=first; i>=last; i--)
        {
            sum += i;
        }
    }
    return sum;
}
```

```cpp
#include <iostream>
using namespace std;

int sum_from_to(int first,int last);
int sum;

int main()
{
    int first,last;

    cout << "Enter the first number : ";
    cin >> first;
    cout << "Enter the last number : ";
    cin >> last;
    sum_from_to(first,last);
    cout << "\nsum from "<<first<<" to "<<last<<" is "<<sum<< endl;

    return 0;
}

int sum_from_to(int first,int last)
{
    if(first<last)
    {
        for(int i=first; i<=last; i++)
        {
            sum += i;
        }
    }
    else
    {
        for(int i=first; i>=last; i--)
        {
            sum += i;
        }
    }
    return sum;
}
```

```
"C:\Users\dell\OneDrive\Documents\A Study\KDU\CS1012 - Fundamentals of Progra
Enter the first number : 4
Enter the last number : 7

sum from 4 to 7 is 22

Process returned 0 (0x0)   execution time : 2.907 s
Press any key to continue.
```

9)

```cpp
#include <iostream>

using namespace std;


int g_c_d(int x,int y);

int gcd;

int x,y;

int main()

{

   cout << "Enter two positive integers : "<<endl;

   cin >> x >> y;
```

```
    if(x<=0 || y<=0)
    cout << "\nThe greatest common divisor is : 0";
    else
    g_c_d(x,y);
    return 0;
}

int g_c_d(int x,int y)
{
    for(int i=1; i<=x||i<=y; i++)
    {
        if(x%i==0 && y%i==0)
        gcd = i;
    }
    cout << "\nThe greatest common divisor is : "<<gcd<<endl;
    return gcd;
}
```

Start here | Q9.cpp

```
#include <iostream>
using namespace std;

int g_c_d(int x,int y);
int gcd;
int x,y;
int main()
{
    cout << "Enter two positive integers : "<<endl;
    cin >> x >> y;
    if(x<=0 || y<=0)
    cout << "\nThe greatest common divisor is : 0";
    else
    g_c_d(x,y);
    return 0;
}

int g_c_d(int x,int y)
{
    for(int i=1; i<=x||i<=y; i++)
    {
        if(x%i==0 && y%i==0)
        gcd = i;
    }
    cout << "\nThe greatest common divisor is : "<<gcd<<endl;
    return gcd;
}
```

```
"C:\Users\dell\OneDrive\Documents\A Study\KDU\CS1012 - Fundamentals
Enter two positive integers :
42
6

The greatest common divisor is : 6

Process returned 0 (0x0)   execution time : 39.620 s
Press any key to continue.
```