Assignment 1

Variable and data types

variables and data type > C++ 5qus.cpp > main()

```cpp
// Write a C++ program to find size of basic data types
#include <iostream>
using namespace std;
int main()
{

 cout << "Size of fundamental data types :"<<endl;
 cout << " The sizeof(char) : " << sizeof(char) << " bytes" <<endl ;
 cout << " The sizeof(short) : " << sizeof(short) << " bytes "<<endl ;
 cout << " The sizeof(int) : " << sizeof(int) << " bytes "<<endl ;
 cout << " The sizeof(long): " << sizeof(long) << " bytes "<<endl ;
 cout << " The sizeof(long long) :" << sizeof(long long) << " bytes "<<endl;
 cout << " The sizeof(float) :" << sizeof(float) << " bytes " <<endl;
 cout << " The sizeof(double) :" << sizeof(double) << " bytes "<<endl;
 cout << " The sizeof(long double) :" << sizeof(long double) << " bytes "<<endl;
 cout << " The sizeof(bool) : " << sizeof(bool) << " bytes "<<endl;
    return 0;
}
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

```
PS E:\Ranjan\c++ programing\variables and data type> cd "e:\Ranjan\c++ programing\variables and data type\" ; if ($?) { g++ 5qus.cpp -o 5qus } ; if ($?)
{ .\5qus }
Size of fundamental data types :
 The sizeof(char) : 1 bytes
 The sizeof(short) : 2 bytes
 The sizeof(int) : 4 bytes
 The sizeof(long): 4 bytes
 The sizeof(long long) :8 bytes
 The sizeof(float) :4 bytes
 The sizeof(double) :8 bytes
 The sizeof(long double) :12 bytes
 The sizeof(bool) : 1 bytes
```

Code Code Code

variables and data type > C++ 4qus.cpp > main()

```cpp
//Write a C++ program to calculate the cube of a number
#include <iostream>
using namespace std;
int main()
{
    int c;
    cout<<"enter the number:"<<endl;
    cin>>c;
    int r= c*c*c;
    cout<<"cube of a enter number is: "<<r;
    return 0;
}
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

```
PS E:\Ranjan\c++ programing\variables and data type> cd "e:\Ranjan\c++ programing\variables and data type\" ; if ($?) { g++ 4qus.cpp -o 4qus } ; if ($?)
{ .\4qus }
enter the number:
2
cube of a enter number is: 8
PS E:\Ranjan\c++ programing\variables and data type>
```

Code Code Code

variables and data type > C++ 3qus.cpp > main()

```cpp
//Write a C++ program to take length and breadth of a rectangle and print its area.
#include <iostream>
using namespace std;
int main()
{
    int l=10;
    int b = 20;
    cout<<"area of rectangle is:"<<l*b;
    return 0;
}
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

```
PS E:\Ranjan\c++ programing\variables and data type> cd "e:\Ranjan\c++ programing\variables and data type\" ; if ($?) { g++ 3qus.cpp -o 3qus } ; if ($?)
{ .\3qus }
area of rectangle is:200
PS E:\Ranjan\c++ programing\variables and data type>
```

Code
Code
Code

variables and data type > C++ 2qus.cpp > main()

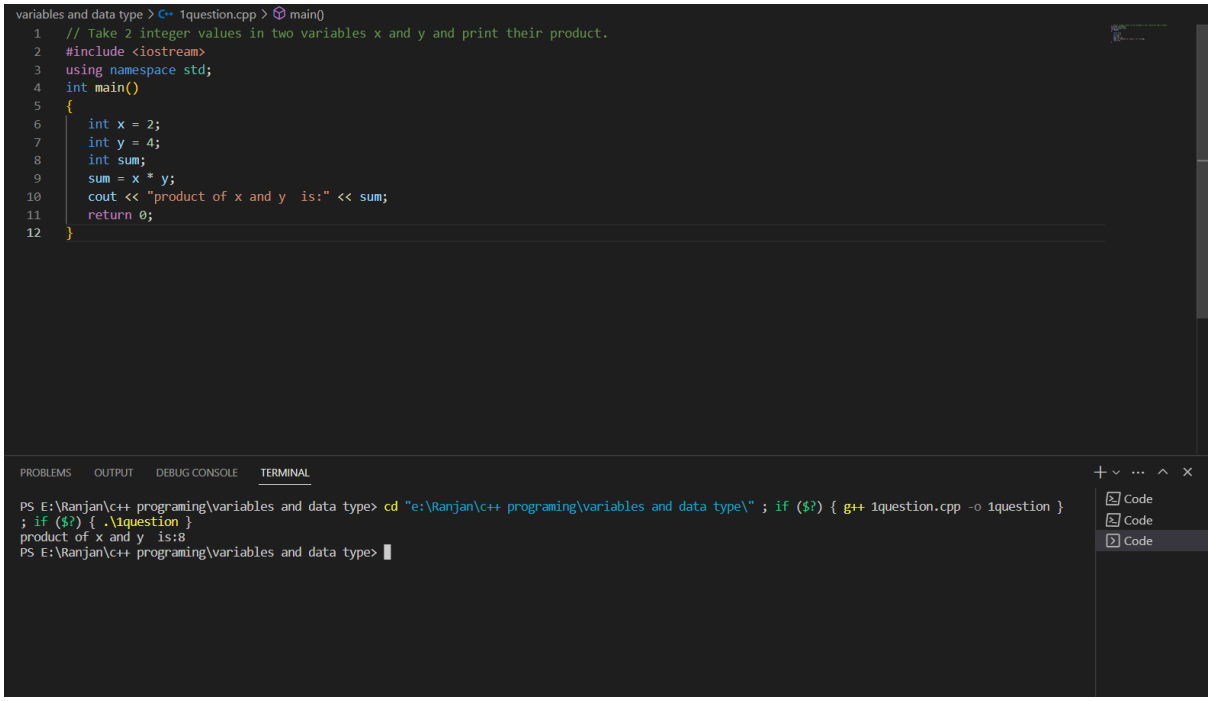
```cpp

// Print the ASCII value of character 'U'
#include <iostream>
using namespace std;
int main(){
    char c= 'U';
    int ascci= (int)c;
    cout << "ascci value of U is:" << ascci;
    return 0;
}
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

```
PS E:\Ranjan\c++ programing\variables and data type> cd "e:\Ranjan\c++ programing\variables and data type\" ; if ($?) { g++ 1question.cpp -o 1question }
; if ($?) { .\1question }
product of x and y  is:8
PS E:\Ranjan\c++ programing\variables and data type> cd "e:\Ranjan\c++ programing\variables and data type\" ; if ($?) { g++ 2qus.cpp -o 2qus } ; if ($?)
{ .\2qus }
ascci value of U is:85
PS E:\Ranjan\c++ programing\variables and data type>
```

Code
Code
Code


variables and data type > 1question.cpp > main()
// Take 2 integer values in two variables x and y and print their product.
#include <iostream>
using namespace std;
int main()
{
int x = 2;
int y = 4;
int sum;
sum = x * y;
cout << "product of x and y is:" << sum;
return 0;
}
PROBLEMS
OUTPUT
DEBUG CONSOLE
TERMINAL
PS E:\Ranjan\c++ programing\variables and data type> cd "e:\Ranjan\c++ programing\variables and data type\" ; if ($?) { g++ 1question.cpp -o 1question }
; if ($?) { .\1question }
product of x and y is:8
PS E:\Ranjan\c++ programing\variables and data type>
Code
Code
Code