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Assignment no 1
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```
(C) 🔅
                                                Run
                                                         Output
       main.cpp
R
                                                        Enter the number :5
       3 using namespace std;
                                                        1 5
Ξ
       4 int main()
5
              int num = 0;
              cout <<"Enter the number :";
       8
              cin >> num;
£
              for (int 1 = 1; 1 <= num; 1++){
                  1f (num % 1 == 0){
       10
0
                  cout << 1 << " " ;
       12
0
       13
       14
0
       16
```

Q2. Write output to the following code.

```
#include <iostream>
int main(0{
    int x = 5;
    int y = 10;
    if (x5)
    if (y = 10) std::cout << "x is 5 and
    y is 10" << std::endl; else std::cout
    << "x is not 5" << std::endl;
    return 0;
```

OUTPUT

x is 5 and y is 10.

<u>Q3</u>

```
main.cpp
                                    [] ÷
                                               Run
                                                         Output
                                                        Enter the number(num) = 4
       3 using namespace std;
5 int main()
日
       7 int num;
       8 cout << " Enter the number(num) = ";</pre>
       9 cin >> num;
      10 - if( num >= 10 && num <= 20){
      11 cout << "1" ;
0
      13 else {
      14 cout << "0";
JS
```

<u>Q4</u>

```
R
          using namespace std;
int main()
9
           int N = 0;
           cout << "Enter numbwer(N) = ";</pre>
4
        9 cin >> N;
0
       12 int largestPrime = 1;
13 bool isPrime = true;
0
       14
0
       15 while (count<=N) {
       17 isPrime = true;
JS
GO
       20 - if (!(count % i == 0)){
       21 isPrime = true;
php
       22 }
23 else
3
           isPrime = false;
       26 }
1
       28 }
29 if (isPrime==true) {
           largestPrime = count;
       32 count +++;
              equal to "<< N << " is "<< largestPrime <<
          end1:
```

Q5

```
[] : Run
                                                                                                                                    Output
                       #include <iostream>
using namespace std;
int main()
                                                                                                                                   Enter the first string = 5
Enter the second string = 7
The strings are not equal.
R
                        int main()
{
const int SIZE = 100;
char str1(SIZE), str2(SIZE);
cout << "enter the first string = ";
cin >> str1;
cout << "enter the second string = ";
cin >> str2;
=
6
               8 cin >> str1
9 cout << "En'
10 cin >> str2
11
12 int 1 = 0;
•
              13
14 while (stri[1] != '\0' && str2[1] != '\0' && str1[1] != str2[1]) {
15  1--;
16  }
17  : if (str1[1] != '\0' && str2[1] != '\0') {
18  int len = 0;
19  while (stri[len] != '\0') {
20  len--;
21 }
0
0
                       char temp = str1[0];
for (int j = 0; j < len - 1; j-+) {
str1[j] = str1[j + 1];
 2
              8
```

```
[] 🔅 Run
                                                        Output
                                                                                                Clear
      main.cpp
Q
                                                      Enter dividend = 6
       3 using namespace std;
                                                       Enter divisor = 3
=
                                                      Quotient = 2
                                                       Remainder = 0
       5 int main()
5
       7 int dividend, divisor, quotient = 0;
       8 cout << " Enter dividend = ";</pre>
£
       9 cin >> dividend;
      10 cout << " Enter divisor = ";
0
      11 cin >> divisor;
      12 - while(dividend >= divisor){
0
      13 dividend -= divisor;
      14 quot1ent++;
0
      16 cout << " Quotient = " << quotient <<endl <<
            "Remainder = "<< dividend << endl;
JS
60
      20 }
php
```

```
83
                                      -0-
                                              Run
                                                        Output
main.cpp
 2 #include <iostream>
                                                      12345
 3 using namespace std;
   int main()
 4
 5 {
 6
        int a[10] = { 1,2,3,4,5 };
        int num = 0;
        for (int i = 0; i \le 9; i++)
        {
10
            cin >> a[i];
11
12
        for (int i = 0; i \le 9; i++)
13
14
         cout<<a[i]<<endl;</pre>
15
16 }
17
```

Q7

```
( ) - Run
                                                          Output
                                                                                                   Clear
       main.cpp
Q
       2 using namespace std;
                                                         Enter a string: 6
       3 int main() {
                                                         The string without duplicatcharacters is: 6
3
           string input;
            cout << "Enter a string: ";</pre>
             cin>> input ;
5
             string result = "";
£
             for (char c : input) {
0
                 if (result.find(c) == string::npos) {
                     result += c;
0
0
              cout << "The string without</pre>
                duplicatcharacters is: " << result <<
                  endl;
GO
```

```
Output
                                                                                                                                                                                      Clear
4
             main.cpp
                                                                    [] 🔅 Run
R
                                                                                                          Enter a number
int main()
9
                         int a[5];
int num = 0;
bool found = false;
cout << "Enter a number\n";
cin >> num;
cout << endl;
cout << "Enter the numbers of the array\n";
for (int i = 0; i < 5; i++)
f</pre>
垂
0
0
•
             18
00
            20
21
            24
25
8
            27
28
29
30
31
32
33
34
                          }
if (!found)
            35
36
            37
38
            39
40 }
```

Q10

```
CO 🔅 Run
                                                                                           Output
4
           main.cpp
R
               #include <iostream>
using namespace std;
int main()
                                                                                         Enter the array of 6 integers
int a[6];
cout << "Enter the array of 6 integers\n";
for (int i = 0; i < 6; i++)
{</pre>
9
0
                                                                                         The sorted array is :
2
3
4
0
•
                                        int temp;
temp = a[j];
a[j] = a[j + 1];
a[j + 1] = temp;
-
B
```