

Programming lab Assignment

<u>01</u>

Name Hasnain Ali

Reg. No 478806

<u>Section</u> C

Q.No:01

#include<iostream>

using namespace std;

```
int main()
                                                                                   int n,i;
                                                                                     cout<<"enter the value of n whose facter is to be found:";</pre>
                                                                                  cin>>n;
                                                                                  for(i=1; i<=n; ++i)
   {
if(n%i==0)
cout<<i;
 }
return 0;
   }
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2 using namespace std;

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```
using namespace std;
int main()
                                              int x = 5;
                                              int y = 10;
                                              if(x==5)
                                               if(y==10)
cout<<"x is 5 and y is 10";</pre>
else
cout<<"y is not 10";</pre>
return 0;
 }
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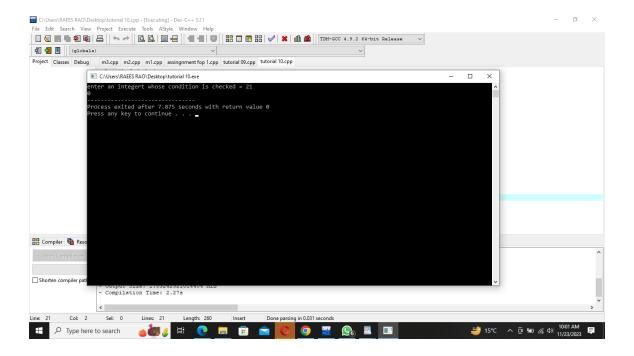
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- Compilation Time: 3.00s
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```

#include<iostream>
using namespace std;

```
int main()
{
    int n;
   bool a = true;
   bool b = false;
     cout<<"enter an integert whose condition is checked = ";</pre>
     cin>>n;
     if( n>10 && n<=20)
     cout<<a;
     else
     cout<<b;
     return 0;
}
```



```
#include<iostream>
using namespace std;
bool isprime(int num)
{
    if(num<2)
    {
       return false; }
    for(int i=2; i<num; ++i)
    {
       if(num%i==0) {
            return false;
       }
    }
    return true;
}</pre>
```

```
int main()
            int N;
           cout << "enter the positive integer such as N : ";
            cin>>N;
while (N>=2) {
            if(isprime(N))
{
                       cout<<"the largest prime number equal or less to</pre>
"<<N<<"="<<N<<"\mathbb{Y}n";
           break;
            }
      --N;
}
return 0;
}
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Project the largest prime number equal or less to 67-67
       rocess exited after 6.224 seconds with return value 0 ress any key to continue . . . _
                  Errors: 0
Warnings: 0
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Output Size: 1.83248849609375 MiB
Compilation Time: 2.682
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```

```
#include <iostream>
#include <string>
using namespace std;
int main() {
    string str1, str2;
    cout << "Enter first string: ";</pre>
    cin >> str1;
    cout << "Enter second string: ";</pre>
    cin >> str2;
    if (str1 == str2) {
         rotate(str1.begin(), str1.begin() + 1, str1.end());
         cout << "Strings are now unequal:\formalign";</pre>
         cout << "String 1: " << str1 << "\mathbb{Y}n";</pre>
         cout << "String 2: " << str2 << "\mathbb{Y}n";</pre>
    } else {
         cout << "Strings are already unequal.\formats";</pre>
    }
```

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

int main()
{
  int num = 0;
  cout << "Enter the number\n"; cin >> num;
```

```
int quotient = 0; int divisor = 0;
cout << "Enter the divisor\u00e4n"; cin >> divisor;
while (num>=divisor)
num -= divisor; quotient++;
}
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        nter the divisor
        cocess exited after 6.111 seconds with return value 0 cess any key to continue . . . .
                   Errors: 0
Errors: 0
Warnings: 0
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Output Size: 1.0324232101404 MiB
Compilation Time: 2.148
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```

```
#include <iostream>
using namespace std;
string removeDuplicates(const string& str) {
    string result;
    for (int i = 0; i < str.length(); ++i) {
        char currentChar = str[i];
        if (str.find(currentChar, i + 1) == string::npos) {
            result.push back(currentChar);
        }
}</pre>
```

```
}
    }
return result;
int main() {
    string inputString;
    cout << "Enter a string: ";</pre>
    cin >> inputString;
    string resultString = removeDuplicates(inputString);
    cout << "Resultant string after removing duplicates: " <</pre>
resultString << endl;</pre>
    return 0;
}
                                Q.No:08
#include <iostream> using namespace std; int main()
\{int a[10] = \{1,2,3,4,5\};
for (int i = 0; i \le 9; i++)
{cin >> a[i];
for (int i = 0; i <= 9; i++)
{cout<<a[i]<<endl;}
                           Q.No:09
#include <iostream> using namespace std;
int main()
{
int a[5]; int num = 0;
```

```
bool found = false;
cout << "Enter a number\n"; cin >> num;
cout << endl;</pre>
cout << "Enter the numbers of the arrayn"; for (int i = 0; i < 5;
{
cin >> a[i];
}
for (int i = 0; i < 5; i++)
{for (int j = 0; j < 5; j++)
{for (int k = 0; k < 5; k++)
\{if (a[i]+a[j]+a[k]==num)
{found = true;
}
}
}
}if (!found)
{
}
```

```
cout << "Triplet not found" << endl;
cout << "Triplet found\u00e4n";
return 0;}</pre>
```

}

```
int main()
{
int a[6];
cout << "Enter the array of 6 integersYn"; for (int i = 0; i < 6; i++)
cin >> a[i];
for (int e = 0; e <= 6; e++)
{for (int j = 0; j < 4; j++)
\{if (a[j] > a[j + 1])\}
{int temp; temp = a[j];
a[j] = a[j + 1]; a[j + 1] = temp; }
}
cout << "The sorted array is :" << endl;</pre>
for (int k = 0; k < 6; k++)
{cout<< a[k]<<endl;
}return 0;
}
else
{
```