

Assignment#2

Lab of fundamental programming

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Section: ME-15B

Date: 11oct,2023.

Task#1:

```
#include<iostream>
#include<cmath>
using namespace std;
int main(){
            int x;
            cin>>x;
            if(90 <= x \& x >= 100){
          cout<<"your grade is A";</pre>
          }
          else if(75 <= x \& 90 > x){
          cout<<"your grade is B";</pre>
          }
         else if(60 <= x \& 75 > x){
        cout<<"your grade is C";</pre>
        }
        else if(45 <= x \& 60 > x){
        cout<<"your grade is D";</pre>
        }
        else{
```

```
cout<<"your grade is E";
}
return 0;
}</pre>
```

```
C\Users\khurram\Documents\task2.exe

67
your grade is C

Process exited after 5.102 seconds with return value 0
Press any key to continue . . .
```

Task#2:

```
#include<iostream>
using namespace std;
int main(){
        int i;
        cout<<"please enter the integer: ";</pre>
        cin>>i;
 if(i/2\&\&i/5){
              cout<<"the integer is divisible by 2 and 5";
  }
      else{
      cout<<"your integer is not divisible by 2 and 5";
}
     return 0;}
```

```
please the integer x: 69
the integer is neither even nor divisible by 5

Process exited after 15.56 seconds with return value 0
Press any key to continue . . .
```

Task#3:

```
#include<iostream>
#include<cmath>
using namespace std;
int main(){
    int a;
    cout<< "please enter the year: ";
    cin>>a;
if( a%4==0 && a%100!=0){
    cout<< " this year is a leap year";}
else {cout<<" this year is not a leap year";}
return 0;}</pre>
```

```
Process exited after 9.433 seconds with return value 0
Press any key to continue . . .
```

Task#4:

```
#include<iostream>
#include<cmath>
using namespce std;
int main(){
       float x;
      float y;
      cout<<" please enter the GPA: ";
      cin>> x;
     cout<< " please enter the attendance percentage: ";
     cin>> y;
     if( x \ge 3.5 \&\& y \ge 80)
    cout<<"the student is eligible for scholarship";}</pre>
   else { cout<<"the student is not eligible for scholarship"; }
return 0; }
```

```
Please enter the GPA: 3.8
please enter the dearn and process extended and process exited after 11.02 seconds with return value 0
Press any key to continue . . .
```

Task#5:

```
#include<iostream>
#include<cmath>
using namespace std;
int main(){
    char x;
    cout<< "please enter the character: ";
    cin>>x;
if ( x=='a'||x=='e'||x=='i'||x=='o'||x=='u'){
    cout<< " the entered character is a vowel";}
else { cout<< " the entered character is a consonant";}
return 0;}</pre>
```

```
Process exited after 15.14 seconds with return value 0
Press any key to continue . . .
```