

Assignment#2

Lab of fundamental programming

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Section: ME-15B

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Task#1:

```
#include <iostream>
#include<math.h>
using namespace std;
int main(){
float a;
cout<< "marks obtained: ";
cin>>a;
if( a \ge 90 \& a < 100){
cout<<"A-Grade";}</pre>
else if( a>=75&&a<90)
{cout<<"B-Grade";</pre>
}
else if( a>=60&&a<75){
cout<< " C-Grade";}</pre>
else if ( a = 45 \& a < 60){
cout<<" D-grade";}</pre>
else if( a > = 0 \& \& a < 45)
{cout<< "F-Grade";}</pre>
```

return 0;}

```
#include <iostream>
#include<math.h>
using namespace std;
int main(){

int x;

cout<<"value of of x: ";
cin>>x;
```

```
if(x%2==0&&x%5==0)
{ cout<<" the integer is even and divisible by 5"<<endl;
}
else if(x%2==0&&x%5!=0)
{ cout<<" the integer is even but not divisible by 5";}
else if( x%2!=0 && x%5==0)
{ cout<< "the integer is not even but is divisible by 5";}
else{ cout<<" the integer is neither even nor divisible by 5";}
return 0;
}</pre>
```

```
Process exited after 4.884 seconds with return value 0

Press any key to continue . . .
```

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

```
Process exited after 14.34 seconds with return value 0

Press any key to continue . . .
```

```
#include <iostream>
#include<math.h>
using namespace std;
int main(){
float a;
float b;
cout<<" GPA: ";
cin>> a;
cout<< " Attendance percentage: ";</pre>
cin>> b;
if( a \ge 3.5 \&\& b \ge 80)
{ cout<<"the student is eligible for scholarship";}
else { cout<<"the student is not eligible for scholarship"; }</pre>
return 0; }
```

```
I C\Users\khurram\Documents\123.exe

GPA: 3.9

Attendance percentage: 79
the student is not eligible for scholarship

Process exited after 46.55 seconds with return value 0
Press any key to continue . . .
```

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

return 0;}

```
LOUSers/khurram/Documents/123.exe

character: i
    the character is a vowel

Process exited after 14.35 seconds with return value 0

Press any key to continue . . .
```