

Assignment-1

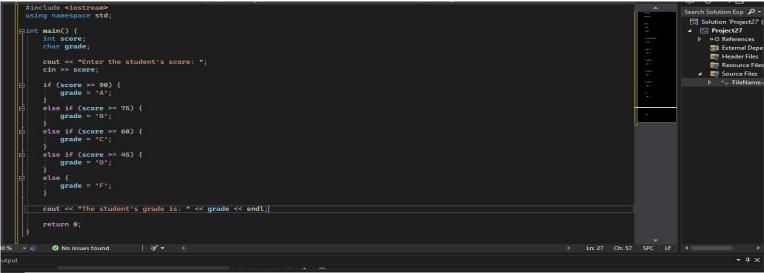
SECTION -C

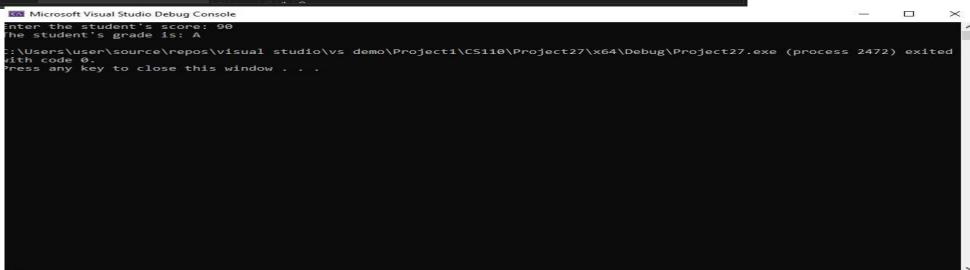
SUBJECT: Computer Systems and

Programming

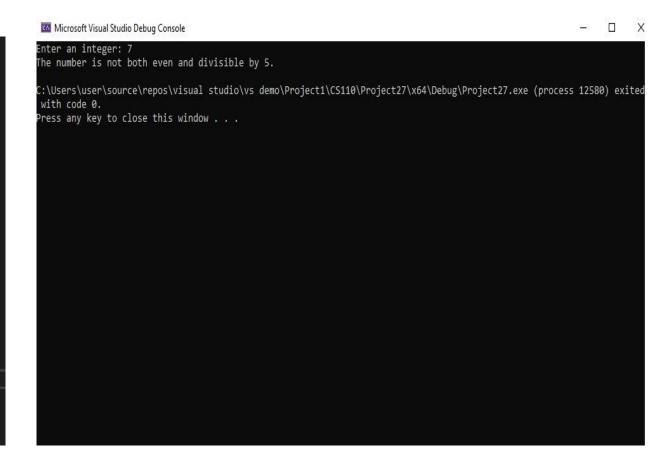
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```
#include <iostream>
using namespace std;
int main() {
    int num;
    cout << "Enter an integer: ";</pre>
    cin >> num;
    if (num % 2 == 0 && num % 5 == 0) {
        cout << "The number is both even and divisible by 5." << endl;</pre>
    else {
        cout << "The number is not both even and divisible by 5." << endl;</pre>
    return 0;
```



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

int main() {
   int year;

   cout << "Enter a year: ";
   cin >> year;

   if ((year % 4 == 0 && year % 100 != 0) || year % 400 == 0) {
      cout << year << " is a leap year." << endl;
   }
   else {
      cout << year << " is not a leap year." << endl;
   }

   return 0;
}</pre>
```

```
Enter a year: 2001
2001 is not a leap year.

C:\Users\user\source\repos\visual studio\vs demo\Project1\C5110\Project27\x64\Debug\Project27.exe (process 11440) exited with code 0.

Press any key to close this window . . .
```

```
#include <iostream>
using namespace std;
int main() {
    float gpa;
    int attendance;
    cout << "Enter student's GPA: ";</pre>
    cin >> gpa;
    cout << "Enter student's attendance percentage: ";</pre>
    cin >> attendance;
    if (gpa >= 3.5 && attendance >= 80) {
        cout << "The student is eligible for the scholarship." << endl;</pre>
    else {
        cout << "The student is not eligible for the scholarship." << endl;</pre>
    return 0;
```

```
Microsoft Visual Studio Debug Console
                                                                                                               Enter student's GPA: 3.5
Enter student's attendance percentage: 80
The student is eligible for the scholarship.
C:\Users\user\source\repos\visual studio\vs demo\Project1\CS110\Project27\x64\Debug\Project27.exe (process 12624) exited
Press any key to close this window . . .
```

```
#include <iostream>
using namespace std;
int main() {
    char character;
    cout << "Enter a character: ";</pre>
    cin >> character;
    // Convert the character to lowercase for easier comparison
    character = tolower(character);
    if (character == 'a' || character == 'e' || character == 'i' || character == 'o' || character == 'u') {
        cout << "The character is a vowel." << endl;</pre>
    else {
        cout << "The character is a consonant." << endl;</pre>
    return 0;
```

```
_ _
Microsoft Visual Studio Debug Console
Enter a character: a
The character is a vowel.
C:\Users\user\source\repos\visual studio\vs demo\Project1\CS110\Project27\x64\Debug\Project27.exe (process 12532) exited
with code 0.
Press any key to close this window . . ._
```