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3. Sec-A

4. Task-1

5. int main(){

6. int score;

7. //asking the user to enter score

8. cout<<"please enter the score of the student"<<endl;

9. cin>> score;

10. //using conditional statement to compare score to

11. calculate grade

12. if (score>=90 && score<=100)

13. {cout<<"A grade"<<endl;

14. }

15. else if (score>=75&& score<90)

16. { cout<<"B grade"<<endl;}

17. else if (score>=60&& score<75)

18. { cout<<"C grade"<<endl;}

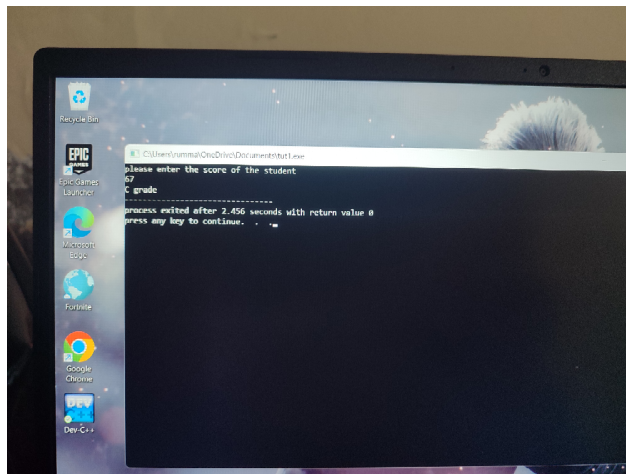
19. else if (score>=45&& score<60)

20. { cout<<"D grade"<<endl;}

21. else if (score>=0&& score<45)

22. { cout<<"F grade"<<endl





```
23. Task2
24. int main(){
25.     int num;
26.     //prompt the user to enter number
27.     cout<<"please enter the number you want to
28.     check"<<endl;
29.     cin>>num;
30.     //comparing its remainder after division by 2, to see if its
31.     even using conditional statement
32.     if (num%2==0){
33.         //checking if its divisible by 5 or not
34.         if(num%5==0){cout<<"number is an even number and
35.         is divisible by 5"<<endl;
36.     }
37.     else{cout<<"num is even number, but is not divisible by
38.     5"<<endl;
```

```

please enter the number you want to check
60
number is even and divisible by 5
-----
process exited after 3.789 seconds with return value 0
press any key to continue . . .

```

39. }

40. else if (num%5==0){cout<<"number is not even but is

41. divisible by 5"<<endl;

42. }

43. else{cout<<"number is neither even, nor divisible by

44. 5"<<endl;

45. }

46. return 0;}

### Task 3

47. int main(){

48. int year;

49. //asking user to enter year

50. cout<<"please enter the year"<<endl;

51. cin>>year;

52. //using if statement to check if its leap year

53. if (year%4==0 && year%100 !=0

54. //outputting the result

55. //outputting the result

56. {cout<<"year is a leap year"<<endl;

57. }

```

58.    //outputting the result
59.    {cout<<"year is a leap year"<<endl;
60.    }
61.    else if (year%400==0){
62.    cout<<"year is a leap year"<<endl;
63.    }
64.    else{cout<<"year is not a leap year"<<endl;
65.    }
66.    return 0;
67.    }

```

The screenshot shows a terminal window with the following text:

```

Stor
please enter the year
2008
Libr
year is a leap year
-----
process exited after 1.986 seconds with the return value 0
Unre
press any key to continue . . .

```

```

68.    Task4
69.    Int main(){
70.    Float gpa;

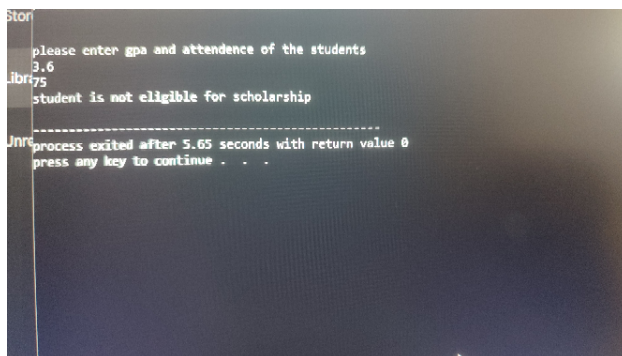
71.    int attendance;
72.    //asking the user to enter gpa and attendance
73.    cout<<"please enter gpa and attendance of the

```

```

74.     students"<<endl;
75.     cin>> gpa;
76.     cin>>attendance;
77.     //checking if gpa and attendance meets the criteria for
78.     scholarship
79.     if (gpa>= 3.5 && attendance>=80){
80.         //outputting results
81.         cout<<"student is eligible for scholarship"<<endl;
82.     }
83.     else{cout<<"student is not eligible for scholarship"<<endl;
84.     }
85.     return 0;
86.     }

```



The screenshot shows a terminal window with the following text:

```

please enter gpa and attendance of the students
3.6
75
student is not eligible for scholarship
-----
process exited after 5.65 seconds with return value 0
press any key to continue . . .

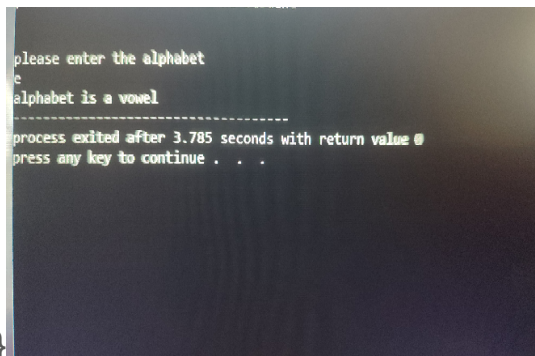
```

## Task 5

```
1. int main(){
```



2. char character;
3. cout<<"please enter the alphabet"<<endl;
4. cin>>character;
5. if (character=='a' || character=='e' || character=='i' ||
6. character=='o' || character=='u')
7. {cout<<"alphabet is vowel"<<endl;
8. }
9. else{cout<<"alphabet is consonant"<<endl;
10. }
11. return 0;



The screenshot shows a terminal window with the following text:

```
please enter the alphabet
e
alphabet is a vowel
-----
process exited after 3.785 seconds with return value 0
press any key to continue . . .
```

12. }