

**Task 01:**

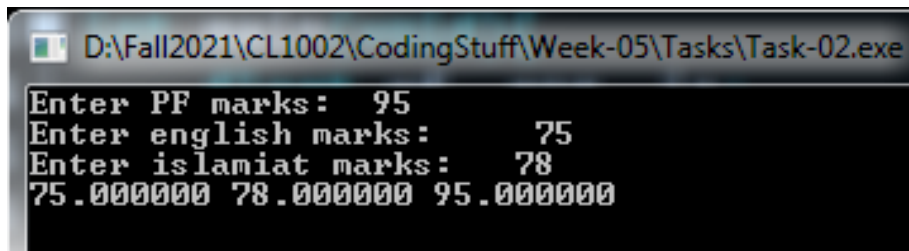
FAST university gives earned leaves (EL) to the employees who have served for at least 1 year, otherwise it doesn't give EL to them. Write a program which can help you out by letting you know that whether you have accrued earned leave or not.

Hint (use employee ID integer part only as user input)

**Task 02:**

Write a program which takes your three subject marks as input and displays the marks in ascending order.

Your program output should be as follows:

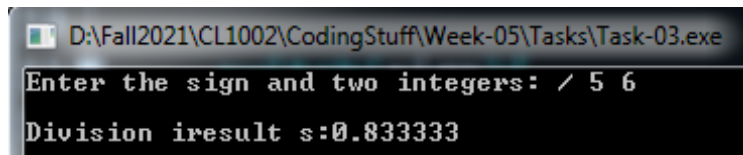


```
D:\Fall2021\CL1002\CodingStuff\Week-05\Tasks\Task-02.exe
Enter PF marks: 95
Enter english marks: 75
Enter islamiat marks: 78
75.000000 78.000000 95.000000
```

**Task 03:**

Write a program which represents the physical calculator and performs following basic operations.

'+', '-', '\*', '/', '. The result may be like following:



```
D:\Fall2021\CL1002\CodingStuff\Week-05\Tasks\Task-03.exe
Enter the sign and two integers: / 5 6
Division iresult s:0.833333
```

**Task 04:**

Write a program which takes month number as input and returns the season name as output at the screen.

**Task 05:**

Mr. Abdul Saeed makes an announcement in start of each semester about the fee submission dates after the announced date you are charged with some fine. If your fee is late about 7 days or less than 7 days, then you are charged with 500 rs fine. If your fee is late more than 7 days but less than 14 days, then your fine is double and if your fee is late more than 14 days then your fine is triple.

Write a program which finds out the total fine as per late submission policy.

**Task 06:**

You are participating in ACM coders cup and you are given a simple scenario in which you are asked to design a program which asks student grade as input like(A,B,C,D,F) and returns the range of marks the student obtained in particular subject.

**Task 07:**

You are asked by Serenair to write a program for finding out the cost of carrying luggage as per passenger ticket class according to the mentioned table.

Transport Cost

Class	Weight (Kg)	Cost (PKR)
Economy	$\leq 25$	0
	$>25$ and $\leq 40$	1.50 for each (Kg) over 25
	$> 40$	2.00 for each (Kg) over 40
Business	$\leq 35$	0
	$>35$ and $\leq 50$	1.25 for each (Kg) over 35
	$> 50$	1.50 for each (Kg) over 50
VIP	$< 60$	0
	$> 60$	30 (fixed cost)

**Task 08:**

Your cafeteria owner sales Pepsi and mountain dew drinks. Pepsi costs pkr 35 per bottle and dew costs pkr 38 per bottle. He offers 8.5% discounts on order more than 2000 pkr or 50 bottles. For order more than 4500 or 155 bottles pkr he offers 25% discounts. Write a program which reads the order and displays the total cost.

You should provide the user a choice that whether he/she wants to opt in cash or in number of bottles.

Hint(Consider the following snapshot for same program)

```

D:\Fall2021\CL1002\CodingStuff\Week-05\Tasks\Task-08.exe
Enter your choice as q for quantity or c for cash:      q
Enter the quantity:      270
You have to pay 8338.235352 PKR for pepsi:
Or You have to pay 10720.587891 PKR for dew:
-----
Process exited after 13.61 seconds with return value 0
Press any key to continue . . .

D:\Fall2021\CL1002\CodingStuff\Week-05\Tasks\Task-08.exe
Enter your choice as q for quantity or c for cash:      c
Enter cash amount:      5000
You can buy 130 dew bottels:
You can buy 155 pepsi bottels:
-----
Process exited after 16.43 seconds with return value 0
Press any key to continue . . .

```

**Task 09:**

Write a c code which asks person's gender and height and displays the corresponding description for the height, **as per given table**:

New Text Document - Notepad		
File	Edit	Format View Help
Gender	Height (m)	Result
Male	<1.70	Short
Male	≥1.70 and <1.85	Normal
Male	≥1.85	Tall
Female	<1.60	Short
Female	≥1.60 and <1.75	Normal
Female	≥1.75	Tall

**Task 10:**

You bought a new smartphone and you had set a PIN code for your phone. But your younger brother knew about your code and he plays games in your absence on your phone. Now you are about to change your phone PIN code. You are asked to enter the current PIN code and the device checks if that code is equal to the one stored in the phone. If they are the same, then the user is asked to enter the new PIN code and once more for verification, and if it is entered correctly, it is stored in the phone. Write a program that simulates this process. Assume that the **current code stored in phone is 1002**.