

Question 1

Not yet answered

Marked out of 10.00

Flag question

At the end of a financial year a company decided to give bonus for their employees. The bonus for each employee is calculated as n times of their basic salary. n is a number between 0 and 3.

You are asked to write a C program to calculate the bonus given for the employees.

Write a function called **findBonusTimes()** to calculate and return the number of times for each employee. Number of times depend on the employee category as shown in the following table.

Employee Category	Number of times
A	1
B	2
C - E	3

Hint : ASCII value of A is 65
Function prototype is given below.

```
int findBonusTimes(char empCategory);
```

Write a function called **findBonus()** to calculate the bonus amount.
(bonus = No of times * basic salary).

```
float findBonus(float salary, int noOfTimes);
```

In your main function enter the employee category and the salary of an employee from the keyboard. Calculate and display the bonus given for the employee using the above implemented functions.

```
Enter Salary : 15000.00
Enter employee number : B
Bonus : 30000.00
```

Marking Guide
 implementing the function1 - 2.0 marks
 implementing the function2 - 2.0 marks
 In the main program
 Declaring meaningful variable names - 0.5 mark

Quiz

Finish after

Time left 0:00

1

```
#include <stdio.h>

int findBonusTimes( char empCategory);

float findBonus (float salary , int noOfTime);

//function main program execution
int main (void)
{
    char empCategory ;
    float salary ;
    int noOfTime ;

    printf("Enter Salary : ");
    scanf("%f",&salary );

    printf("Enter Empolyee catogary (A/B/C/D/E):");
    scanf(" %c",&empCategory );

    noOfTime = findBonusTimes( empCategory);

    printf("Bouns : %.2f" , findBonus ( salary , noOfTime) );

    return 0 ;
}
```

```

} //end function main

int findBonusTimes( char empCategory)
{
    switch (empCategory)
    {
        case 65 :
            return 1 ;
            break ;

        case 66 :
            return 2 ;
            break ;

        case 67 ... 69 :
            return 3 ;
            break ;

        default : printf("invalid ampolyee Categary!! try again\n");
    }
}

float findBonus (float salary , int noOfTime)
{
    return noOfTime * salary ;
}

```

Examinations Lockdown Browser Practice Test

A restaurant charges government taxes, services charges and delivery charges for their food depend on the order type. These are calculated as a percentage from the order subtotal amount.

Order Type	Description	Taxes	Service Charge	Delivery Charge
1	Dine in	12%	10%	-
2	Take a way	12%	-	-
3	Delivery	12%	-	5%

You are ask to write a C program to calculate the total bill amount for the orders placed at the restaurant.

Write a function called `calAdditionalCharges()` to calculate and return the additional amount charged per bill (include the taxes, service charges and delivery Charges).

Function prototype is given below.

```
float calAdditionalCharges( int orderType, float subTotal )
```

Write a function called `calTotalBill()` to calculate the total bill by adding the sub total and the additional charges.

```
float calTotalBill(float subTotal, float charges)
```

In your main function enter the order type and subtotal from the keyboard. Calculate and display the total bill using the above implemented functions. If the order type is not valid, display an error message.

```
Enter sub total : 100.00
Enter order type: 2
Total bill amount : 112.00
```

Marking Guide
Implementing the function1 - 2.0 marks

```
#include <stdio.h>
```

```
float calAdditinalCharges (int orderType , float subTotal); float
calTotalBill(float subTotal , float charges);
```

```
//function main program execution
```

```
int main (void)
```

```
{
```

```
    int orderType ; float
    subTotal , charges ;
```

```
    printf("Enter sub total : ");
    scanf("%f", &subTotal);
```

```
    printf("Enter Order type : ");
    scanf("%d", &orderType);
```

```
    charges = calAdditinalCharges ( orderType , subTotal);
```

```
    printf("\nTotal bill amount : %.2f", calTotalBill( subTotal , charges)) ;
```

```
    return 0 ;  
} // end function main
```

```
float calAdditinalCharges (int orderType , float subTotal)  
{  
    float charge ;  
    if (orderType == 1 )  
    {  
        charge = (subTotal / 100 * 12.0) + (subTotal / 100 * 10.0) ;  
        return charge ;  
    }  
    else if (orderType == 2 )  
    {  
        charge = (subTotal / 100 * 12.0) ;  
        return charge ;  
    }  
    else if (orderType == 3 )  
    {  
        charge = (subTotal / 100 * 12.0) + (subTotal / 100 * 5.0) ;  
        return charge ;  
    }  
    else  
    {  
        printf("Oder type invalied!! Try again\n\n");  
    }  
}  
  
float calTotalBill(float subTotal , float charges)  
{  
    return subTotal + charges ;  
}
```

A grocery store decided to increase the price for three product categories in their store. The product categories and the price increasing percentages are given in the following table.

Product Category	Percentage (%)
1	10
2	15
3	20

You are asked to write a C program to calculate the new price of the above items in the store.

Write a function called **findIncreasePercent()** to calculate the price increasing percentage for each product.

Function prototype is given below.

```
float findIncreasePercent(int category)
```

Write a function called **findNewPrice()** to calculate the new price.

new price = old price + old price * (percentage / 100)

```
float findNewPrice(int percentage, float price)
```

In your main function enter the price and product category from the keyboard. Calculate and display the new price of a product using the above implemented functions. If the category is not valid display an error message.

Quiz navigation

Finish attempt ...

Time left 0:39:00

1

```
#include <stdio.h>
```

```
float findIncreasePercent (int category); float  
findNewPrice (int percentage , float price);
```

```
//function main program execution
```

```
int main ()
```

```
{
```

```
    int category , percentage ;  
    float price ;
```

```
    printf("Enter the price : ");  
    scanf("%f", &price);
```

```
    printf("product category : ");  
    scanf("%d", &category);
```

```
    percentage = findIncreasePercent ( category );
```

```
    printf("New price : %.2f", findNewPrice ( percentage , price ) );
```

```
    return 0 ;
```

```
} //end function main
```

```

float findincreasePercent (int category)
{
    switch (category)
    {
        case 1 :
            return 10 ;
            break ;

        case 2 :
            return 15 ;
            break ;

        case 3 :
            return 20 ;
            break ;

        default :
            printf("Category is not valid!! try again\n");
    }
}

```

```

float findNewPrice (int percentage , float price)
{
    float n_price ;

    n_price = price + (price * (percentage / 100.0));
    return n_price ;
}

```