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SECTION:BCS2D

Practice problem 1:

```c
#include <stdio.h>

int main(){
        int month;
        printf("enter the number of month :");
        scanf("%d",&month);
        switch(month){
                case 1:
                printf("junaury:");
                break;
                case 2:
                        printf("feburuary::");
                        break;
                        case 3:
                                printf("march:");
                                break;
                                case 4:
                                        printf("april:");
                                        break;
                case 5:
                printf("may:");


                break;
                case 6:
                printf("june");
                break;
```

```c
            case 7:

            printf("july");

            break;

            case 8:

            printf("august");

            break;

            case 9:

            printf("september");

            break;

            case 10:

            printf("october");

            break;


            case 11:

            printf("novmber");

            break;

            case 12:

            printf("December""");

            break;

            default  :

            printf("invalid number :");

    }
    return 0;
}
```

```
enter the number of month :6
june
-------------------------------
Process exited after 6.778 seconds with return value 6
Press any key to continue . . .
```

Lab task Q1:

```c
#include <stdio.h>


int greater_num(int num1, int num2, int num3) {          //function declaration and defination
    if (num1 > num2) {
        if (num1 > num3) {
            printf("num1 is greater:");
        }
else {
        printf("num3 is greater: ");
        }
    }
        else {
        if (num2 > num3) {
        printf("num2 is greater: ");
        }
            else {
        printf("num3 is greater: ");
        }
    }
    return greater_num;
}


int main() {
    int num1, num2, num3;
    printf("Enter three numbers: ");
    scanf("%d %d %d", &num1, &num2, &num3);
    greater_num(num1, num2, num3);   //function calling
    return 0;
```

}

OUTPUT :01

```
enter three number :7
3
4
num 1 is greater :num 1 is greater :
-------------------------------
Process exited after 3.674 seconds with return value 0
Press any key to continue . . .
```

OUTPUT :02

```
enter three number :8
12
3
num2 is greter :num2 is greter :
-------------------------------
Process exited after 4.394 seconds with return value 0
Press any key to continue . . .
```

LAB TASK :Q2:

#include <stdio.h>

int main() {

float price_rice,price_sugar, price_cooking_oil, price_tea, price_milk;

float total_price;

//taking price rate of items from user using printf and scanf functions

printf("the price of rice: ");

scanf("%f", &price_rice);

printf("the price of sugar: ");

scanf("%f", &price_sugar);

printf("the price of cooking oil: ");

```c
scanf("%f", &price_cooking_oil);

printf("the price of tea: ");

scanf("%f", &price_tea);

printf("the price of milk: ");

scanf("%f", &price_milk);

total_price = price_rice + price_sugar + price_cooking_oil + price_tea + price_milk;

printf("total price : $%.2f\n", total_price);

if (total_price > 2000) {

total_price =total_price* 0.9;

printf("total price after discount is %.2f",total_price);

}

return 0;

}
```

OUTPUT :01

```
the  price of rice: 500
the price of sugar: 625
the price of cooking oil: 450
the price of tea: 50
the price of milk: 200
total price : $1825.00

--------------------------------
Process exited after 16.44 seconds with return value 0
Press any key to continue . . .
```

OUTPUT :02

```
the   price of rice: 600
the price of sugar: 500
the price of cooking oil: 450
the price of tea: 100
the price of milk: 500
total price : $2150.00
total price after discount is 1935.00
-------------------------------
Process exited after 16.74 seconds with return value 0
Press any key to continue . . .
```

LAB TASK:Q3

```c
#include <stdio.h>
int main(){
        int customers_ID;
        float unit_consumed,charge_per_unit, surcharge_amount;
        printf("enter the customers ID :");
        scanf("%d",&customers_ID);


        printf("enter the unit consumedm by the customers :");
        scanf("%f",&unit_consumed);
        if(unit_consumed>0&&unit_consumed<=199){
                charge_per_unit=unit_consumed*1.2;
                printf("charge per unit is %.2f",charge_per_unit);
        }
        else if(unit_consumed<=200&&unit_consumed<400){
                charge_per_unit=unit_consumed*1.5;
                printf("charge per unit is %.2f",charge_per_unit);
        }
        else if(unit_consumed>=400&&unit_consumed<600){
                charge_per_unit=unit_consumed*1.8;
                printf("charge per unit is %.2f",charge_per_unit);
```

```c
		}
		else if(unit_consumed>=600){
					charge_per_unit=unit_consumed*2.00;
				printf("charge per unit is %.2f",charge_per_unit);
		}
		if(charge_per_unit>400){
				surcharge_amount=charge_per_unit*0.15;
				printf("\nsurcharrge amount=%.2f",surcharge_amount);
		}
		float net_amount=surcharge_amount+charge_per_unit;
		printf("\nnet amount paid by customer is %.2f",net_amount);


	}
```

```
enter the customers ID :1001
enter the unit consumedm by the customers :800
charge per unit is 1600.00
surcharrge amount=240.00
net amount paid by customer is 1840.00        .
------------------------------
Process exited after 5.792 seconds with return value 39
Press any key to continue . . .
```

```
enter the customers ID :1001
enter the unit consumedm by the customers :200
charge per unit is 300.00
net amount paid by customer is 300.00
------------------------------
Process exited after 8.235 seconds with return value 3
Press any key to continue . . .
```
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```
enter the customers ID :1001
enter the unit consumedm by the customers :50
charge per unit is 60.00
net amount paid by customer is 60.00
---------------------------------
Process exited after 19.01 seconds with return value 37
Press any key to continue . . .
```