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Section:BCS2D

Lab task:01 and 02

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

```
float sameer(float pieces) {  
    float sameer_eats = pieces * 0.15;  
    printf("sameer eats %.2f slices from the pizza.\n", sameer_eats);  
    return sameer_eats;  
}
```

```
int main() {  
    float pieces = 11.0;  
    float result = sameer(pieces);  
  
    return 0;  
}
```

```
sameer eats 1.65 slices from the pizza.  
-----  
Process exited after 0.7274 seconds with return value 0  
Press any key to continue . . .
```

02:

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

```
float calculate_total_marks() {  
    float total_marks = 100.0 + 100.0 + 100.0 + 100.0 + 100.0;  
    printf("Total marks=%.2f\n", total_marks);  
    return total_marks;  
}
```

```
float calculate_percentage(float obtained_marks, float total_marks) {  
    float percentage = (obtained_marks / total_marks) * 100.0;  
    printf("Percentage=%.2f\n", percentage);  
    return percentage;  
}
```

```
int main() {  
    float math_marks, english_marks, urdu_marks, physics_marks, computer_marks;  
    printf("Enter the math marks: ");  
    scanf("%f", &math_marks);  
    printf("Enter the english marks: ");  
    scanf("%f", &english_marks);  
    printf("Enter the urdu marks: ");  
    scanf("%f", &urdu_marks);  
    printf("Enter the physics marks: ");  
    scanf("%f", &physics_marks);  
    printf("Enter the computer marks: ");  
    scanf("%f", &computer_marks);
```

```
float obtained_marks = math_marks + urdu_marks + english_marks + physics_marks +  
computer_marks;
```

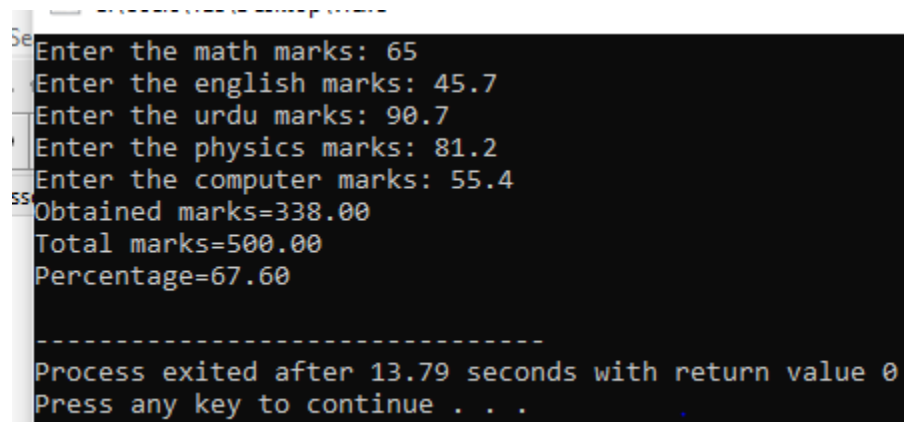
```
printf("Obtained marks=%.2f\n", obtained_marks);
```

```
float total_marks = calculate_total_marks();
```

```
float result2 = calculate_percentage(obtained_marks, total_marks);
```

```
return 0;
```

```
}
```



```
Enter the math marks: 65  
Enter the english marks: 45.7  
Enter the urdu marks: 90.7  
Enter the physics marks: 81.2  
Enter the computer marks: 55.4  
Obtained marks=338.00  
Total marks=500.00  
Percentage=67.60  
  
-----  
Process exited after 13.79 seconds with return value 0  
Press any key to continue . . .
```

01: function conditions function with argument and without return value

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

```
void function_with_argument(int a,int b){
```

```
    int sum;
```

```
    sum=a+b;
```

```
    printf("sum=%d",sum);
```

```
}
```

```
int main(){
```

```
    int a,b;
```

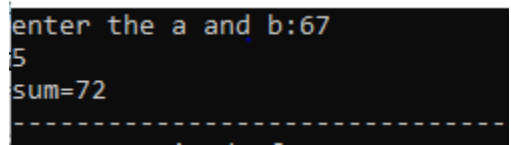
```
    printf("enter the a and b:");
```

```
    scanf("%d%d",&a,&b);
```

```
    function_with_argument(a,b);
```

```
    return 0;
```

```
}
```



```
enter the a and b:67
5
sum=72
-----
```

02: function without argument and with return value

```
#include <stdio.h>

int without_arguments(){
    int sum;

    return sum;
}

int main(){
    int a,b;

    printf("enter the a and b:");

    scanf("%d%d",&a,&b);

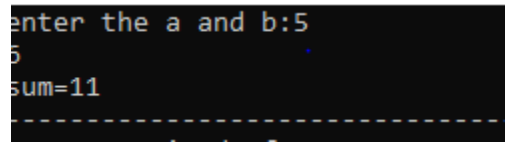
    int sum;

    sum=a+b;

    printf("sum=%d",sum);

    without_arguments();

    return 0;
}
```



```
enter the a and b:5
5
sum=11
```

03: function without argument and without return value

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

```
void function_without_argument() {    //function declaration  
}
```

```
int main() {
```

```
    int num1,num2,sum;
```

```
    printf("enter the first number: ");
```

```
    scanf("%d", &num1);
```

```
    printf("enter the second number: ");
```

```
    scanf("%d", &num2);
```

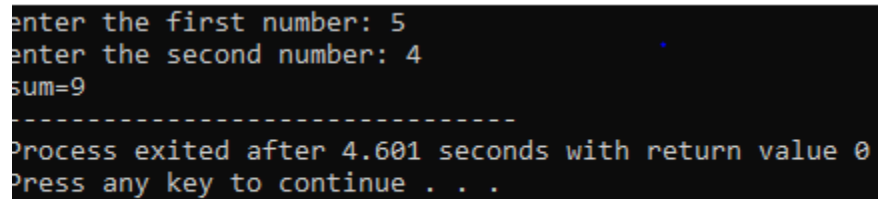
```
    sum=num1+num2;
```

```
    printf("sum=%d",sum);
```

```
    function_without_argument(); //function calling
```

```
    return 0;
```

```
}
```



```
enter the first number: 5  
enter the second number: 4  
sum=9  
-----  
Process exited after 4.601 seconds with return value 0  
Press any key to continue . . .
```

04:function with argument and with return value

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

```
int sum(int a,int b){
```

```
sum=a+b;
```

```
printf("sum=%d",sum);
```

```
return sum;
```

```
}
```

```
int main(){
```

```
int a,b;
```

```
printf("enter the value of a and b :");
```

```
scanf("%d%d",&a,&b);
```

```
int result=sum(a,b);
```

```
return 0;
```

```
}
```

```
enter the a and b:5
```

```
6
```

```
sum=11
```

```
-----  
Process exited after 3.869 seconds with return value 0  
Press any key to continue
```

01:

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

```
int day(int day_number){           //function declaration
```

```
    if(day_number==1){
```

```
        printf("monday");
```

```
    }
```

```
    else if(day_number==2){
```

```
        printf("tuesday");
```

```
    }
```

```
    else if(day_number==3){
```

```
        printf("wednesday");
```

```
    }
```

```
    else if(day_number==4){
```

```
        printf("thursday");
```

```
    }
```

```
    else if(day_number==5){
```

```
        printf("friday");
```

```
    }
```

```
    else if(day_number==6){
```

```
        printf("saturday");
```

```
    }
```

```
    else if(day_number==7){
```

```
        printf("sunday");
```

```
    }
```

```
    else {
```

```
        printf("your choicen is wrong");
```

```
    }
```



```

}

int main(){

    int day_number;

    printf("enter the day number :");

    scanf("%d",&day_number);

    int result=day(day_number);    //function calling

    return 0;

}

```

```

enter the day number :6
saturday
-----
Process exited after 3.278 second
Press any key to continue

```

```

enter the day number :3
wednesday
-----
Process exited after 4.128 s

```

```

enter the day number :9
your choicen is wrong
-----
Process exited after 2.634 seconds with return value 0
Press any key to continue . . .

```

02:

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

```
int vowel(char alphabet){  
    if(alphabet=='a'){  
        printf("vowel");  
    }  
    else if(alphabet=='e'){  
        printf("vowel");  
    }  
    else if(alphabet=='i'){  
        printf("vowel alphabet");  
    }  
    else if(alphabet=='o'){  
        printf("vowel alphabet");  
    }  
  
    else if(alphabet=='u'){  
        printf("vowel alphabet");  
    }  
  
    else {  
        printf("consonant alphabet");  
    }  
    return alphabet;  
}  
  
int main(){  
    char alphabet;;  
  
    printf("enter the alphabet:");
```

```
scanf("%c",&alphabet);  
  
int result=vowel(alphabet);  
  
return 0;  
  
}
```

```
enter the alphabet:a  
vowel  
-----
```

```
enter the alphabet:o  
vowel alphabet  
-----
```

```
enter the alphabet:h  
consonant alphabet  
-----
```

03:

```
#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("Enter price of rice: ");

scanf("%f", &price_rice);

printf("Enter price of sugar: ");

scanf("%f", &price_sugar);

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

scanf("%f", &price_cooking_oil);

printf("Enter price of tea: ");

scanf("%f", &price_tea);

printf("Enter 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 *= 0.9;

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

}

return 0;}
```

```
Enter price of rice: 400
Enter price of sugar: 300
Enter price of cooking oil: 800
Enter price of tea: 200
Enter price of milk: 150
total price : $1850.00
-----
```

```
Enter price of rice: 400
Enter price of sugar: 1200
Enter price of cooking oil: 400
Enter price of tea: 200
Enter price of milk: 150
total price : $2350.00
total price after discount is 2115.00
-----
Process exited after 14.27 seconds with return
```

04:

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

```
float triangle(float side1,float side2,float side3){
```

```
    if (side1 + side2 > side3 && side1 + side3 > side2 && side2 + side3 > side1) {
```

```
        printf("triangle is valid");
```

```
    } else {
```

```
        printf("triangle is not valid ");
```

```
    }
```

```
}
```

```
int main() {
```

```
    float side1, side2, side3;
```

```
    printf("Enter the lengths of three sides of the triangle:\n");
```

```
    printf("Side 1: ");
```

```
    scanf("%f", &side1);
```

```
    printf("Side 2: ");
```

```
    scanf("%f", &side2);
```

```
    printf("Side 3: ");
```

```
    scanf("%f", &side3);
```

```
    float result=triangle(side1,side2,side3);
```

```
    return 0;
```

```
}
```

Enter the lengths of three sides of the triangle:

side 1: 45

side 2: 23

side 3: 67

triangle is valid
