أكواد برامج مهمة

- ## Calculate the area and perimeter of circle

```cpp
#include <iostream>
using namespace std;
int main(){
double raduis , area , perimeter;
cout<<"Enter the raduis : ";
cin>>raduis;
area = 3.14 * raduis * raduis;
perimeter = 2 * 3.14 * raduis;
cout<<"The Area is : "<<area<<endl;
cout<<"The perimeter is : "<<perimeter;

return 0;}
```
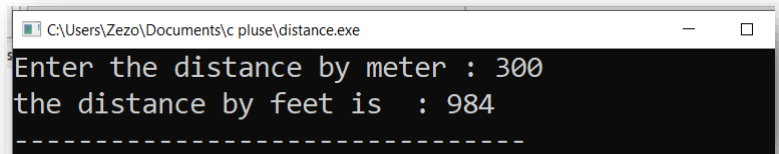
```
C:\Users\Zezo\Documents\c pluse\area.exe
Enter the raduis : 2.4
The Area is : 18.0864
The perimeter is : 15.072
---------------------------------
```

● Convert the distance of meter to feet (1 meter = 3.28 feet)

```cpp
#include <iostream>
using namespace std;
int main(){
double meter , feet;


cout<<"Enter the distance by meter : ";
cin>>meter;
feet = meter * 3.28;
cout<<"the distance by feet is  : "<<feet;


return 0;}
```
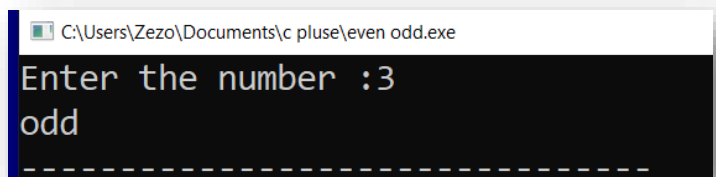
```
C:\Users\Zezo\Documents\c pluse\distance.exe                    —    □

Enter the distance by meter : 300
the distance by feet is  : 984
-------------------------------
```

● Check number if even or odd

```cpp
#include <iostream>
using namespace std;
int main(){
int number;
cout<<"Enter the number :";
cin>>number;
if(number%2 == 0){
  cout<<"even";
  }

else{
  cout<<"odd";
  }
return 0;}
```
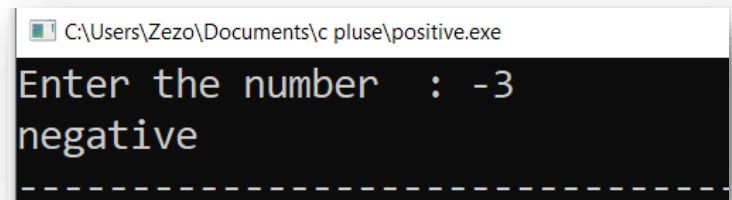
```
C:\Users\Zezo\Documents\c pluse\even odd.exe

Enter the number :3
odd
-------------------------------
```

Check the number if positive or negative or zero

```cpp
#include <iostream>
using namespace std;
int main(){
int number;
cout<<"Enter the number  : ";
cin>>number;
if (number > 0){
cout<<"positive";
}
else if (number < 0){
cout<<"negative";
}
else {
cout<<"zero";
}
return 0;}
```



```
C:\Users\Zezo\Documents\c pluse\positive.exe
Enter the number   : -3
negative
```

● Find the smallest number of three numbers
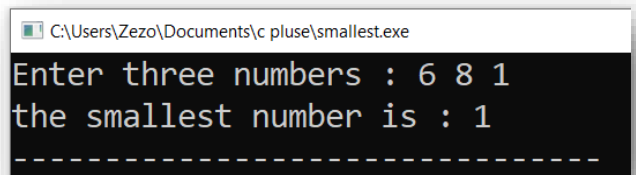
```cpp
#include <iostream>
using namespace std;
int main(){
int n1 , n2 ,n3;
cout<<"Enter three numbers : ";
cin>>n1>>n2>>n3;


if(n1 <= n2  && n1 <= n3){


        cout<<"the smallest number is : "<<n1;
}
else if(n2 <= n1  && n2 <= n3){
        cout<<"the smallest number is : "<<n2;
}
else if(n3 <= n1  && n3 <= n2){


        cout<<"the smallest number is : "<<n3;
}


return 0;}
```
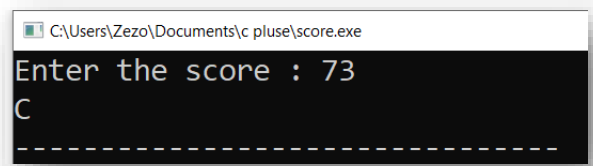
C:\Users\Zezo\Documents\c pluse\smallest.exe

```
Enter three numbers : 6 8 1
the smallest number is : 1
--------------------------------
```

- **Calculate the grad of the score if score grater or equal 90 the grad is A or if score grater or equal 80 the grad is B ....**

```cpp
#include <iostream>
using namespace std;
int main(){
int score;
cout<<"Enter the score : ";
cin>>score;

if(score >= 90){
        cout<<"A";
}
else if(score >= 80){
        cout<<"B";
}
else if(score >= 70){
        cout<<"C";
}
else if (score >= 60){
        cout<<"D";
}
else if (score <= 60){
        cout<<"F";
}
else {
        cout<<"Error";
}
return 0;}
```

```
C:\Users\Zezo\Documents\c pluse\score.exe
Enter the score : 73
C
--------------------------------
```

- **Convert the hour of 24 format to 12 format**

```
#include <iostream>
using namespace std;
int main(){
int time;
cout<<"Enter time in the 24 hour format : ";
cin>>time;

if(time >0  && time < 12){

        cout<<"the converted time is : "<<time<<" am";
}

else if(time >= 12  && time <= 24){
            if(time == 12){
                    cout<<"the converted time is : "<<time<<" pm";
            }

            else if(time == 24){
                    time = time - 12;
                    cout<<"the converted time is : "<<time<<" am : mid night";
            }
            else
            {
                    time = time - 12;
                cout<<"the converted time is : "<<time<<" pm";
            }
}

return 0;}
```
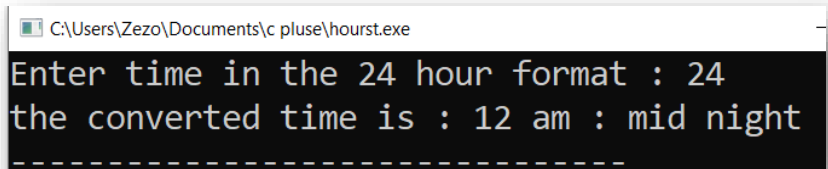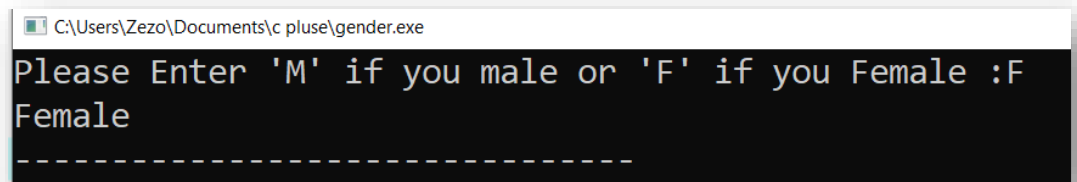
```
C:\Users\Zezo\Documents\c pluse\hourst.exe

Enter time in the 24 hour format : 24
the converted time is : 12 am : mid night
--------------------------------
```

- **Write C++ statements that output Male if the gender is 'M', Female if the gender is 'F, and invalid gender otherwise.**

```cpp
#include <iostream>
using namespace std;
int main(){
char gender;
cout<<"Please Enter 'M' if you male or 'F' if you Female :";
cin>>gender;
if(gender == 'M'){
cout<<"Male";
  }
else if(gender == 'F'){
cout<<"Female";
  }
else{
cout<<"invalid";
}

return 0;}
```

C:\Users\Zezo\Documents\c pluse\gender.exe

```
Please Enter 'M' if you male or 'F' if you Female :F
Female
--------------------------------
```

- **Write a program that prompts the user to input three numbers.**

  The program should then output the numbers in ascending order.

```cpp
#include <iostream>
using namespace std;

int main() {

    int num1 , num2 , num3 ;
        int small , midium , larg;

    cout << "Enter three numbers ";
    cin >> num1 >> num2 >> num3;


    if (num1 <= num2 && num1 <= num3) {
        small = num1;
        if (num2 <= num3) {
            midium = num2;
            larg = num3;
        }
        else {
            midium = num3;
            larg = num2;
        }
    }

    else if (num2 <= num1 && num2 <= num3) {
        small = num2;
        if (num1 <= num3) {
            midium = num1;
            larg = num3;
        }
                else {
            midium = num3;
            larg = num1;
        }
    }
    else {
        small = num3;
        if (num1 <= num2) {
            midium = num1;
            larg = num2;
        }
                else {
            midium = num2;
            larg = num1;
        }
    }


    cout << "Numbers in ascending order: " << small << " " << midium << " " << larg;

    return 0;
}
```
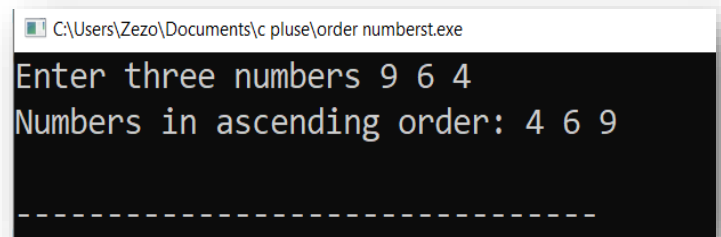
C:\Users\Zezo\Documents\c pluse\order numberst.exe

```
Enter three numbers 9 6 4
Numbers in ascending order: 4 6 9

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```

ALZEEKA Tutorial

شروحات - خدمات - تصاميم

إنضم الآن