

کارگاه مبانی کامپیوتر و برنامه نویسی

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مهندسی کامپیوتر ، واحد بروجرد

```
# include <iostream>
using namespace std;
int main()
{ int n,i;
  cout << "n = ";
  cin >> n;

  if (n < 2)
  {
    cout << "The program is terminated.";
  }

  for (int i = 2; i < n ; i++)
    if (n % i == 0)
      break;
  if (i == 0)
    cout << " is a prime number. \n";
  else
    cout << " is a composite number. \n";

}
```

```
#include<iostream>
using namespace std;
int main()
{
    int a,b;
    cout<<"Enter a.\n";
    cin>>a;

    cout<<"Enter b.\n";
    cin>>b;
    a+=b;
    b=a-b;
    a=a-b;
    cout<<"a ="<<a<<"\n";
    cout<<"b ="<<b<<"\n";
}
```

```
#include <iostream>
using namespace std;
int main()
{
    float radius;
    cin >> radius;
    double Mohit = 2 * 3.14 * radius;
    double Masahat = 3.14 * radius * radius;
    cout << Mohit << "\n";
    cout << Masahat << "\n";
}
```

```
#include<iostream>
#include<conio.h>
using namespace std;
main()
{
int a,b,max,min,r=1;
cout<<"please enter two numbers:";
cout<<"\n\n"<<"number1=";
cin>>a;
cout<<"\n"<<"number2=";
cin>>b;
max=a;
min=b;
while(r!=0)
{
r=(max%min);
max=min;
min=r;
}
cout<<"\n\n"<<"B.M.M of "<<a<<','<<b<<" is:"<<max;
cout<<"\n\n\n"<<"press any key to exit...";
getch();
return 0;
}
```

```
#include <iostream>
#include <math.h>
using namespace std;
int main()
{
int a,b,c;
cin>>a>>b>>c;
cout<<"enter a,b,c";
int delta=b*b-4*a*c;
if (delta<0) cout<<"\nrisheh nadarad";
else if (delta==0)
{
cout<<"\n1 risheh darad";
double x1=-b/(2.0*a);
cout<<x1;
}
else //if (delta>0)
{
cout<<"\n 2 risheh darad";
double x1=(-b+sqrt(delta))/(2*a);
double x2=(-b-sqrt(delta))/(2*a);
cout<<"\nx1="<<x1<<" x2="<<x2;
}
}
```

```
#include<iostream>
using namespace std;
int main()
{
    int a;
    cout << "Enter a number:\n";
    cin>>a;
    if (a<0)
        a=a*(-1);
    cout<<" ghadremotlaghe of number is:
\t"<<a;
}
```

```
#include <iostream>
using namespace std;
int main()
{
    int n1, n2;
    cout << "Enter two numbers:\n";
    cin >> n1 >> n2;

    if( n1>n2 ){
        cout<< n1 <<"\n"<< n2 <<"\n";
    } else
        cout<< n2 <<"\n"<< n1 <<"\n";
}
```



```
#include <iostream>
using namespace std;
int main()
{
    float radius;
    cin >> radius;
    double Mohit = 2 * 3.14 * radius;
    double Masahat = 3.14 * radius * radius;
    cout << Mohit << "\n";
    cout << Masahat << "\n";
}
```

مثال نهم :

```
#include<iostream>
using namespace std;
main()
{
    int x;
    cout << "Enter x number:\n";
    cin >> x;
    if (x%2==0)
        cout <<"Number is Even:\t"<<x;
    else
        cout <<"Number is Odd:\t"<<x;
}
```

مثال دهم :

```
#include<iostream>
using namespace std;
int main()
{
    int number;
    for (int i = 1; i <= 10; i++)
        cout << "Hello" << "\n";
}
```