



**NATIONAL UNIVERSITY OF SCIENCE & TECNOLOGY**  
**SCHOOL OF MECHANICAL AND MANUFACTURING ENGINEERING**

**SEMESTER # 01**

**CLASS: - ME 15 [SEC A]**

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**Fundamentals of Programming**

**ASSIGNMENT No. 01**

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## QUESTION No.#01

```
#include<iostream>

using namespace std;

int main (){

    int x;

    int y;

    int z;

    int r;

    cout<<"write x ";

    cin>> x;

    cout<<"write y";

    cin>> y;

    cout<<"write z ";

    cin>>z;

    cout<<"write r";

    cin>>r;

    int res;

    cout<<"the distance between two points is ";

    res=(x-y)*(x-y)+(z-r)*(z-r);

    cout<<res<<endl;

    return 0;

}
```

## QUESTION No.#02

```
#include<iostream>

using namespace std;

int main (){

    cout<<"QUESTION No.02"<<endl;

    float cm;

    cout<<"enter values in cm " ;

    cin>>cm;

    float m=cm/100;

    float km=cm/100000;

    cout<<"the value in m is ";

    cout<<m<<endl;

    cout<<"the value in km is ";

    cout<<km<<endl;

    return 0;

}
```

### QUESTION No.#03

```
#include<iostream>

using namespace std;

int main() {

    cout<<"enter value of p ";

    int p;

    int q;

    cin>>p;

    cout<<"enter value of q ";

    cin>>q;

    int res;

    cout<<"the answer is ";

    res=p*p+2*p*q+q*q;

    cout<<res<<endl;

    return 0;

}
```

### **QUESTION No.#04**

```
#include<iostream>

using namespace std;

int main(){

    cout<<"QUESTION No .04"<<endl;

    float fahrenheit;

    cout<<"enter value in fahrenheit ";

    cin>>fahrenheit;

    float celcius= (fahrenheit-32)*5/9;

    cout<<"the value in celcius is ";

    cout<<celcius;

    return 0;

}
```