** 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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**Submitted to MUHAMMAD AFFAN**

**QUESTION No.#01**

#include<iostream>

using namespace std;

int main (){

cout<<"QUESTION No.01"<<endl;

int x1;

int x2;

int y1;

int y2;

cout<<"write x1 ";

cin>> x1;

cout<<"write x2 ";

cin>> x2;

cout<<"write y1 ";

cin>>y1;

cout<<"write y2 ";

cin>>y2;

int res;

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

res=(x2-x1)\*(x2-x1)+(y2-y1)\*(y2-y1);

cout<<res<<endl;

return 0;

}

**QUESTION No.#02**

#include<iostream>

using namespace std;

int main (){

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

float centimeters;

cout<<"enter values in centimeter " ;

cin>>centimeters;

float meters=centimeters/100;

float kilometers=centimeters/100000;

cout<<"the value in meters is ";

cout<<meters<<endl;

cout<<"the value in meters is ";

cout<<kilometers<<endl;

return 0;

}

**QUESTION No.#03**

#include<iostream>

using namespace std;

int main() {

cout<<"QUESTION No.03"<<endl;

cout<<"enter value of a ";

int a;

int b;

cin>>a;

cout<<"enter value of b ";

cin>>b;

int res;

cout<<"the answer is ";

res=a\*a+2\*a\*b+b\*b;

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;

}