**Name: Abdullah Khan Niazi**

**Roll No: 23F-0017**

**BS-AI-1A**

**PF-LAB#5**

**Question#0**

#include <iostream>

using namespace std;

int main() {

cout << "Name : Abdullah Niazi" << endl;

cout << "Roll NO: 23F-0017" << endl;

cout << "My Hobby is E-Gaming" << endl;

system("pause");

}

**Question#1**

#include <iostream>

using namespace std;

int main() {

int num1; // declaring numbers

int num2;

int sum; // declaring sum

cout << "Enter Two Numbers \a"<<endl;

cout << "Enter NUM1 \a" << endl;

cin>> num1; //Input Num1

cout << "ENTER NUM2 \a" << endl;

cin>> num2; //Input Num2

sum = num1 + num2; // Sum

cout << "sum = \a"<<sum<<endl;

system("pause");

return 0;

}

**Question#2**

#include <iostream>

using namespace std;

int main() {

//Decleration of variables

int Num1;

int Num2;

int Diff;

cout << "Enter Two Numbers"<<endl;

cout << "Enter Num1 :"; cin >> Num1;

cout << "Enter Num2 :"; cin >> Num2;

Diff = Num1 - Num2;

cout <<"Difference ="<< Diff << endl;

system("pause");

}

**Question#3**

#include <iostream>

using namespace std;

int main() {

//Decleration of variables

float Num1;

float Num2;

float Num3;

float Num4;

float Num5;

float Num6;

float Num7;

float Product;

cout << "Enter Seven Numbers"<<endl;

cout << "Enter Num1 :"; cin >> Num1;

cout << "Enter Num2 :"; cin >> Num2;

cout << "Enter Num3 :"; cin >> Num3;

cout << "Enter Num4 :"; cin >> Num4;

cout << "Enter Num5 :"; cin >> Num5;

cout << "Enter Num6 :"; cin >> Num6;

cout << "Enter Num7 :"; cin >> Num7;

Product= Num1\*Num2 \* Num3 \* Num4 \* Num5 \* Num6 \* Num7;

cout <<"Product ="<< Product << endl;

system("pause");

}

**Question#4**

#include <iostream>

using namespace std;

int main() {

//Decleration of variables

float Num1, Num2,Quotient;

cout << "Enter Two Numbers"<<endl;

cout << "Enter Num1 :"; cin >> Num1;

cout << "Enter Num2 :"; cin >> Num2;

Quotient = Num1/Num2;

cout <<"Quotient ="<< Quotient << endl;

system("pause");

}

**Question#5**

#include <iostream>

using namespace std;

int main() {

//Decleration of variables

float Num1,Num2,Num3,Num4,Num5,Average,sum;

cout << "Enter Five Numbers"<<endl;

cout << "Enter Num1 :"; cin >> Num1;

cout << "Enter Num2 :"; cin >> Num2;

cout << "Enter Num3 :"; cin >> Num3;

cout << "Enter Num4 :"; cin >> Num4;

cout << "Enter Num5 :"; cin >> Num5;

sum = Num1 + Num2 + Num3 + Num4 + Num5;

Average = sum/5;

cout <<"Average ="<< Average << endl;

system("pause");

}

**Question#6**

#include <iostream>

using namespace std;

int main() {

//Decleration of variables

float Num,square;

cout << "Enter a Number"<<endl;

cout << "Enter Num :"; cin >> Num;

square = Num\*Num;

cout <<"Square ="<< square << endl;

system("pause");

}

**Question#7**

#include <iostream>

using namespace std;

int main() {

//Decleration of variables

float Num,Cube;

cout << "Enter a Number"<<endl;

cout << "Enter Num :"; cin >> Num;

Cube= Num\*Num\*Num;

cout <<"Cube ="<< Cube << endl;

system("pause");

}

**Question#8**

#include <iostream>

using namespace std;

int main() {

//Decleration of variables

float Lenght,Width,Area;

cout << "Enter Lenght And Width"<<endl;

cout << "Enter Lenght :"; cin >> Lenght;

cout << "Enter Width :"; cin >> Width;

Area = Lenght\*Width ;

cout <<"Area="<< Area << endl;

system("pause");

}

**Question#9**

#include <iostream>

using namespace std;

int main() {

//Decleration of variables

float radius,pi,Area;

pi = 3.14;

cout << "Enter Radius of the circle"<<endl;

cout << "Enter radius :"; cin >> radius;

Area = (pi)\*(radius\*radius) ;

cout <<"Area="<< Area << endl;

system("pause");

}

**Question#10**

#include <iostream>

using namespace std;

int main() {

//Decleration of variables

float amount,interest\_rate,time,simple\_interest;

cout << "Enter Principle amount,Rate of interest,Time"<<endl;

cout << "Enter Principle amount :"; cin >> amount;

cout << "Enter Interest Rate :"; cin >> interest\_rate;

cout << "Enter Time in Years :"; cin >> time;

simple\_interest = amount\*(1+interest\_rate\*time);

cout <<"Simple Interest is ="<< simple\_interest << endl;

system("pause");

}