Q.2 ) Develop minimum 5 program using cin and cout.

Program1

🡪Addition of two number

**#include<iostream.h>**

**#include<conio.h>**

**int main()**

**{**

**int num1,num2,num3;**

**cout<<"Enter the number 1 : ";**

**cin>>num1;**

**cout<<"Enter the number 2 : ";**

**cin>>num2;**

**num3=num1+num2;**

**cout<<"sum = "<<num3<<endl;**

**return 0;**

**}**

Output

Enter the number 1 : 5

Enter the number 2 : 5

sum = 10

Program2

🡪Subtraction of two number

**#include<iostream.h>**

**#include<conio.h>**

**int main()**

**{**

**int num1,num2,num3;**

**cout<<"Enter the number 1 : ";**

**cin>>num1;**

**cout<<"Enter the number 2 : ";**

**cin>>num2;**

**num3=num1-num2;**

**cout<<"subtraction = "<<num3<<endl;**

**return 0;**

**}**

Output

**Enter the number 1 : 10**

**Enter the number 2 : 5**

**subtraction = 5**

Program 3

🡪Multiplication of two number

**#include<iostream>**

**#include<conio.h>**

**using namespace std;**

**int main()**

**{**

**int num1,num2,num3;**

**cout<<"Enter the number 1 : ";**

**cin>>num1;**

**cout<<"Enter the number 2 : ";**

**cin>>num2;**

**num3=num1\*num2;**

**cout<<"multiplication = "<<num3<<endl;**

**return 0;**

**}**

Output

**Enter the number 1 : 2**

**Enter the number 2 : 5**

**multiplication = 10**

Program 4

🡪Division of two number

**#include<iostream>**

**#include<conio.h>**

**using namespace std;**

**int main()**

**{**

**int num1,num2,num3;**

**cout<<"Enter the number 1 : ";**

**cin>>num1;**

**cout<<"Enter the number 2 : ";**

**cin>>num2;**

**num3=num1/num2;**

**cout<<"division = "<<num3<<endl;**

**return 0;**

**}**

Output

**Enter the number 1 : 16**

**Enter the number 2 : 2**

**division = 8**

Program 5

🡪Program to print the number

**#include<iostream>**

**#include<conio.h>**

**using namespace std;**

**int main()**

**{**

**int number;**

**cout<<"Enter the number : ";**

**cin>>number;**

**cout<<"Enter number is "<<number<<endl;**

**return 0;**

**}**

Output

**Enter the number : 10**

**Entered number is 10**

Q.3 )Develop program using scope resolution operator ,simple manipulators ,and enumeration.

Program 1

🡪 scope resolution operator

**#include<iostream>**

**#include<conio.h>**

**using namespace std;**

**int num = 100;**

**int main()**

**{**

**int num = 50;**

**cout<<"The value of local variable is "<<num<<endl;**

**cout<<"The value of Global variable is "<<::num<<endl;**

**return 0;**

**}**

Output

**The value of local variable is 50**

**The value of Global variable is 100**

Program 2

🡪 Enumeration operator

**#include<iostream>**

**using namespace std;**

**enum weak{sunday,monday,tuesday,wednesday,thursday,friday,saturday};**

**int main()**

**{**

**weak today;**

**today = wednesday;**

**cout<<"Day"<<today<<endl;**

**return 0;**

**}**

Output

**Day4**

Program 3

🡪Manipulator

**#include<iostream>**

**#include<conio.h>**

**#include<iomanip>**

**using namespace std;**

**int main()**

**{**

**int num1=1,num2=20,num3=300;**

**cout<<"The value of number 1 is"<<setw(4)<<num1<<endl;**

**cout<<"The value of number 2 is"<<setw(4)<<num2<<endl;**

**cout<<"The value of number 3 is"<<setw(4)<<num3<<endl;**

**}**

Output

**The value of number 1 is 1**

**The value of number 2 is 20**

**The value of number 3 is 300**

Q.4 )Develop program using call by reference and return by reference ,default arguments ,constant arguments, inline and function overloading.

🡪Call reference

**#include<iostream>**

**#include<conio.h>**

**using namespace std;**

**void swap(int &,int &);**

**int main()**

**{**

**int num1,num2;**

**cout<<"Enter the number 1"<<endl;**

**cin>>num1;**

**cout<<"Enter the number 2"<<endl;**

**cin>>num2;**

**swap(num1,num2);**

**cout<<"The swap number 1 is "<<num1<<endl;**

**cout<<"The swap number 2 is "<<num2<<endl;**

**return 0;**

**}**

**void swap (int &var1,int &var2)**

**{**

**int temp;**

**temp=var1;**

**var1=var2;**

**var2=temp;**

**}**

Output

**Enter the number 1**

**2**

**Enter the number 2**

**4**

**The swap number 1 is 4**

**The swap number 2 is 2**

Q.5 ) Develop program using structure.

🡪Structure

**#include<iostream>**

**#include<string.h>**

**using namespace std;**

**struct student**

**{**

**int Enroll;**

**string name;**

**int age;**

**int sem;**

**};**

**int main()**

**{**

**struct student a1;**

**cout<<"Enter the Enrollment number : ";**

**cin>>a1.Enroll;**

**cout<<"Enter the name of the student : ";**

**cin>>a1.name;**

**cout<<"Enter the age : ";**

**cin>>a1.age;**

**cout<<"Enter the semester of the student : ";**

**cin>>a1.sem;**

**cout<<endl;**

**cout<<"The name of the student is : "<<a1.name<<endl;**

**cout<<"The Enrollment number of the student is : "<<a1.Enroll<<endl;**

**cout<<"The age of the student is : "<<a1.age<<endl;**

**cout<<"The semester of the student is : "<<a1.sem<<endl;**

**return 0;**

**}**

Output

**Enter the Enrollment number : 10**

**Enter the name of the student : veer**

**Enter the age : 17**

**Enter the semester of the student : 2**

**The name of the student is : veer**

**The Enrollment number of the student is : 10**

**The age of the student is : 17**

**The semester of the student is : 2**