**Student Declaration**

I\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Registration No.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, hereby declare that by attempting the paper for the course \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, I will not be involved in any kind of **cheating/copying/plagiarizing** in solving the short questions-based paper of Final Term Examination Fall 2020. I take full responsibility of my conduct and if I found involved in any kind of such activity of cheating/copying/plagiarizing, then Institute reserves the right to reject my paper and take any disciplinary action against me.

Student Signature

** Final Exam / Fall 2020 (Paper Duration 24 hours)**

**(Online Assignment Based Question Paper)**

Course No.: CS-323   Course Title: Programming Fundamentals

Total Marks: 20 Date of Exams:

Degree: BSCS/BSIT Semester: 1st Section: (A &B)

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Q.No.** | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | Marks  Obtained/  Total Marks |
| **Marks**  **Obtained** |  |  |  |  |  |  |  |  |  |  |  |

|  |
| --- |
| **Total Marks in Words:** |
| **Name of the Teacher: Mr. Irfan Ahmad** |
| **Who taught the course: Signature of Teacher / Examiner:** |

**To be filled by Student**

**Registration No.: Name:**

**(PRACTICAL EXAMINATION)**

**Answer the following questions.**

Q.No.1. Write a program that inputs two numbers and an operator in main function. Also write down add, subtract, multiply and divide function. Main function passes these numbers to above functions and these functions perform the operation and return the result back to main function where it is displayed. **(10)**

Answer:

#include<iostream>

#include<cmath>

using namespace std ;

////////////////////////////sum//////////

int sum(int a,int b)

{

return a+b;

}

//////////////////divid//////////////////

int divid(int a,int b)

{

return a-b;

}

///////////////////division////////////////

float division(float a,float b)

{

return a/b;

}

//////////////////////////multiply///////////////////

double multiply(double a,double b)

{

return a\*b;

}

main()

{

int ch;

cout<<"Enter 1 for sum";

cout<<"\nEnter 2 for division";

cout<<"\nEnter 3 for divided";

cout<<"\nEnter 4 for multiply"<<endl;

cin>>ch;

switch(ch)

{

case 1:

{

int x,y;

cout<<"Enter the number = ";

cin>>x;

cout<<"Enter the number = ";

cin>>y;

cout<<sum(x,y);

}

break;

case 2:

{

float x,y;

cout<<"Enter the number = ";

cin>>x;

cout<<"Enter the number = ";

cin>>y;

cout<<division(x,y);

}

break;

case 3:

{

int x,y;

cout<<"Enter the number = ";

cin>>x;

cout<<"Enter the number = ";

cin>>y;

cout<<divid(x,y);

}

break;

case 4:

{

double x,y;

cout<<"Enter the number = ";

cin>>x;

cout<<"Enter the number = ";

cin>>y;

cout<<multiply(x,y);

}

break;

}

}

Q.No.2. Write down the program that displays the following output using nested loop. **(10)**

ABCDE

FGHI

JKL

MN

O

Answer:

#include<iostream>

using namespace std ;

main()

{

int j;

for(int i=0;i<1;i++)

{

j=i;

while(j<4)

{

if(j==0)

{

cout<<"ABCDE";

}

else if(j==1)

{

cout<<"FGHI";

}

else if(j==2)

{

cout<<"JKL";

}

else if(j==4)

{

cout<<"MN";

}

else

{

cout<<"O";

}

cout<<"\n";

j++;

}

}

}