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Assignment: PF Lab 8

Sec: H

Task 1.a.

Input

```
#include<iostream>
using namespace std;
int sub(int n1,int n2);
int mul(int n1,int n2);
int div(int n1,int n2);
int rem(int n1,int n2);
int main()
{
    int result,n1, n2;
    cout<<"Enter a number 1: ";
    cin>>n1;
    cout<<"Enter a number 2: ";
    cin>>n2;
    cout<<endl;
    result=sub(n1,n2);
    cout<<"The subtraction is "<<result;
    cout<<endl;
    result=mul(n1,n2);
    cout<<"The Multiplication is "<<result;
    cout<<endl;
    result=div(n1,n2);
    cout<<"The Division is "<<result;
    cout<<endl;
    result=rem(n1,n2);
    cout<<"The Remainder is "<<result;
    cout<<endl;
}
```

```
int sub(int n1, int n2)
{
    return n1-n2;
}
```

```
int mul(int n1, int n2)
{
    return n1*n2;
}
```

```
int div(int n1, int n2)
{
    return n1/n2;
}
```

```
int rem(int n1, int n2)
{
    return n1%n2;
}
```

OUTPUT

```
E:\LAB tasks Pf\Lab 8\Task 1 a..exe
Enter a number 1: 33
Enter a number 2: 4

The subtraction is 29
The Multiplication is 132
The Division is 8
The Remainder is 1

-----
Process exited after 6.179 seconds with return value 0
Press any key to continue . . .
```

TASK 1.b

Input

```
#include<iostream>
using namespace std;
int square(int n);
int main()
{
    int result, n;
    result=square(n);
    cout<<"The square of that number is "<<result;
}

int square(int n)
{
    cout<<"Enter a number : ";
    cin>>n;

    return n*n;
}
```

OUTPUT

```
E:\LAB tasks Pf\Lab 8\Task 1 b..exe
Enter a number : 4
The square of that number is 16
-----
Process exited after 2.692 seconds with return value 0
Press any key to continue . . .
```

TASK 1.c

INPUT

```
#include<iostream>
using namespace std;
int Findgreater(int n1, int n2);
int main()
{
    int num1, num2;
    cout<<"Enter number 1 : ";
    cin>>num1;
    cout<<"Enter number 2 : ";
    cin>>num2;

    int result=Findgreater(num1, num2);
    cout<<result<<" is greater .";
}

int Findgreater(int n1, int n2)
{
    if(n1>n2)
        return n1;
    else
        return n2;
}
```

OUTPUT

```
[1] E:\LAB tasks Pf\Lab 8\Task 1 c..exe
Enter number 1 : 3
Enter number 2 : 4
4 is greater .
-----
Process exited after 3.054 seconds with return value 0
Press any key to continue . . .
```

```
[1] E:\LAB tasks Pf\Lab 8\Task 1 c..exe
Enter number 1 : 7
Enter number 2 : 5
7 is greater .
-----
Process exited after 2.753 seconds with return value 0
Press any key to continue . . .
```

TASK 1.d

INPUT

```
#include<iostream>
using namespace std;
string number(int num);
int main()
{
    int num;
    cout<<"Enter a number : ";
    cin>>num;

    string result=number(num);
    cout<<num<<" is "<<result<<".";
}

string number(int num)
{
    if(num%2==0)
        return "Even";
    else
        return "Odd";
}
```

OUTPUT

```
E:\LAB tasks Pf\Lab 8\Task 1 d..exe
Enter a number : 4
4 is Even .
-----
Process exited after 2.217 seconds with return value 0
Press any key to continue . . .
```

```
E:\LAB tasks Pf\Lab 8\Task 1 d..exe
Enter a number : 119
119 is Odd .
-----
Process exited after 3.625 seconds with return value 0
Press any key to continue . . .
```

TASK 1.e

INPUT

```
#include<iostream>
using namespace std;
double Findpercentage(int Obmarks, int Totmarks);
int main()
{
    int Obmarks, Totmarks;
    cout<<"Enter Obtained Marks : ";
    cin>>Obmarks;
    cout<<"Enter Total Marks : ";
    cin>>Totmarks;

    double per=Findpercentage(Obmarks, Totmarks);
    cout<<"\nThe percentage will be "<<per<<. ";
}

double Findpercentage(int Obmarks, int Totmarks)
{
    double per = Obmarks*100.0/Totmarks;

    return per;
}
```

OUTPUT

```
E:\LAB tasks Pf\Lab 8\Task 1 e..exe
Enter Obtained Marks : 34
Enter TotMala rks : 50

The percentage will be 68.
-----
Process exited after 7.712 seconds with return value 0
Press any key to continue . . .
```

TASK 1. f

INPUT

```
#include<iostream>
using namespace std;
char Findgrade(double per);
int main()
{
    double per;
    cout<<"Enter Percentage : ";
    cin>>per;
    char grade=Findgrade(per);
    cout<<"\nThe Grade will be "<<grade<<". ";
}

char Findgrade(double per)
{
    if(per>=60&&per<70)
        return 'C';
    else if(per>=70&&per<80)
        return 'B';
    else if(per>=80&&per<=100)
        return 'A';
    else if(per<60)
        return 'F';
}
```

OUTPUT

```
E:\LAB tasks Pf\Lab 8\Task 1 f..exe
Enter Percentage : 78
The Grade will be B.
-----
Process exited after 4.065 seconds with return value 0
Press any key to continue . . . -
```

Task 1.g

Input

```
#include<iostream>
using namespace std;
bool FindEvenorOdd(int num);
int main()
{
    double num;
    cout<<"Enter a number to check whether it is even or not : ";
    cin>>num;

    bool check=FindEvenorOdd(num);

    if(check==true)
        cout<<endl<<"The number is even.";
    else
        cout<<endl<<"The number is NOT even. ";
}

bool FindEvenorOdd(int num)
{
    if(num%2==0)
        return true;
    else
        return false;
}
```

Output

```
E:\LAB tasks Pf\Lab 8\Task 1 g..exe
Enter a number to check whether it is even or not : 331
The number is NOT even.
-----
Process exited after 2.623 seconds with return value 0
Press any key to continue . . .
```

```
E:\LAB tasks Pf\Lab 8\Task 1 g..exe
Enter a number to check whether it is even or not : 336
The number is even.
-----
Process exited after 4.606 seconds with return value 0
Press any key to continue . . .
```

Task 1.h

Input

```
#include<iostream>
using namespace std;
int Findsum(int num);
int main()
{
    int num;
    cout<<"Enter a range upto which you want to find sum : ";
    cin>>num;

    int sum=Findsum(num);

    cout<<endl<<"The sum of all "<<num<<" positive integers is
"<<sum;
}

int Findsum(int num)
{
    int sum=0;
    for(int i=num; i>0;i--)
        sum+=i;

    return sum;
}
```

Output

```
E:\LAB tasks Pf\Lab 8\Task 1 h..exe
Enter a range upto which you want to find sum : 10
The sum of all 10 positive integers is 55
-----
Process exited after 2.355 seconds with return value 0
Press any key to continue . . .
```

Task 1.i

Input

```
#include<iostream>
using namespace std;
void printTable(int number);
void printTable(int num, int Range);
int main()
{
    int num, range;
    cout<<"Enter any number to print table: ";
    cin>>num;
    printTable(num);

    cout<<"\nEnter any number to print table: ";
```

```
    cin>>num;
    cout<<"Enter max range for table: ";
    cin>>range;
    cout<<endl;
    printTable(num, range);
    cout<<endl;
}

void printTable(int number)
{
    for(int i=1; i<=10; i++)
    {
        cout<<number<<" * "<<i<<" = "<<number*i<<endl;;
    }
}

void printTable(int num, int range)
{
    for(int i=1; i<=range; i++)
    {
        cout<<num<<" * "<<i<<" = "<<num*i<<endl;;
    }
}

return 0;
}
```

Output

```
E:\LAB tasks Pf\Lab 8\Task 1 i..exe
Enter any number to print table: 6
6 * 1 = 6
6 * 2 = 12
6 * 3 = 18
6 * 4 = 24
6 * 5 = 30
6 * 6 = 36
6 * 7 = 42
6 * 8 = 48
6 * 9 = 54
6 * 10 = 60

Enter any number to print table: 8
Enter max: range for table: 7

8 * 1 = 8
8 * 2 = 16
8 * 3 = 24
8 * 4 = 32
8 * 5 = 40
8 * 6 = 48
8 * 7 = 56

-----
Process exited after 8.961 seconds with return value 0
Press any key to continue . . .
```

The End