

SIMPLE PROGRAMS

(MADE BY ALI AKBER)

(BSCS IST REGULAR)

QNO1: Write a program that asks the user to type 5 integers and writes the average of the 5 integers.

```
#include <iostream>
#include <math.h>
using namespace std;

int main()
{
float n1,n2,n3,n4,n5, average;
cout<<"input 5 integers"<<endl;
cin>>n1>>n2>>n3>>n4>>n5;
average=(n1+n2+n3+n4+n5)/5.0f;
cout<<"Average is"<<average<<endl;
return 0;
}
```

QNO2: Write a program that asks the user to accept amount and discount from the user then display the payed amount.

```
#include <iostream>
#include <math.h>
using namespace std;

int main()
{
int amount, discount,payedamount;
cout<<"Input amount "<<endl;
cin>>amount;
cout<<"input discount"<<endl;
cin>>discount;
payedamount=amount-discount;
cout<<"payedamount is"<<payedamount<<endl;
}
```

QNO3: Accept two entry and then display arithmetic operation (+,-,*, /, %).

```

#include <iostream>
#include <math.h>
using namespace std;

int main()
{
    int n1,n2,sum,sub,mult;
    float div,mod;
    cout<<"Enter two integers";
    cin>>n1>>n2;
    sum=n1+n2;
    sub=n1-n2;
    mult=n1*n2;
    div=n1/n2;
    mod=n1%n2;
    cout<<"sum is"<<sum<<endl;
    cout<<"sub is"<<sub<<endl;
    cout<<"mult is"<<mult<<endl;
    cout<<"div is"<<div<<endl;
    cout<<"mod is"<<mod<<endl;
    return 0;
}

```

QNO4: Accept the values in meter then display in inches and centimeters.

```

#include<iostream>
#include<math.h>
using namespace std;
int main()
{
    float meters,inches,centimeters;
    cout<<"enter value in meters"<<endl;
    cin>>meters;
    inches=39.70*meters;
    centimeters=100*meters;
    cout<<"value in inches"<<inches<<endl;
    cout<<"value in centimeters"<<centimeters<<endl;

    return 0;
}

```

QNO5: Accept the values in GB and display the value in bytes.

HINT:

1 GB=1024*1024*1024 bytes

```

#include <iostream>

```

```

using namespace std;
int main()
{
    float gb,bytes;
    cout<<"enter value in gb"<<endl;
    cin>>gb;
    bytes=1024*1024*1024;
    cout<<"value of bytes is"<<bytes;
    return 0;
}

```

QNO6: Write a program that asks the user to type the width and the length of a rectangle and then outputs to the screen the area and the perimeter of that rectangle.

```

#include<iostream>
#include<math.h>
using namespace std;
int main()
{
    float area, perimeter, length,width;
    cout<<"enter length and width of rectangle"<<endl;
    cin>>length>>width;
    area=length*width;
    perimeter=2*(length+width);
    cout<<"area of rectangle is"<<area<<endl;
    cout<<"perimeter of rectangle is"<<perimeter<<endl;

    return 0;
}

```

QNO7: Write a program which accept temperature in Fahrenheit and print it in centigrade

```

#include<iostream>
#include<math.h>
using namespace std;
int main()
{
    float Farhenhit, Celsius;
    cout<<"Enter temperature in Farhenhit"<<endl;
    cin>>Farhenhit;
    Celsius=5*(Farhenhit-32)/9;
}

```

```

cout<<"temp in Celsius is"<<Celsius<<endl;
    return 0;

}

```

QNO8:Write a program which accepts a character and display its next character.

```

#include<iostream>
#include<math.h>
using namespace std;
int main()
{
    char ch;
    cout<<"Enter any character"<<endl;
    cin>>ch;
    ch++;
    cout<<"enter next character"<<ch++<<endl;
}

```

QNO9: Write a program to swap the values of two variables.

```

#include<iostream>
#include<math.h>
using namespace std;
int main()
{
    float var1,var2,temp=0;
    cout<<"enter variable 1 and 2"<<endl;
    cin>>var1>>var2;
    temp=var1;
    var1=var2;
    var2=temp;
    cout<<"values of variables after swapping"<<endl;
    cout<<"variable 1 is"<<var1<<"variable 2 is"<<var2<<endl;
}

```

QNO10: Write a program to swap value of two variables without using third variable

```

#include<iostream>

```

```

#include<math.h>
using namespace std;
int main()
{
    float var1,var2;
    cout<<"enter variable 1 and 2"<<endl;
    cin>>var1>>var2;
    var1=var1+var2;
    var2=var1-var2;
    var1=var1-var2;
    cout<<"values of variables after swapping"<<endl;
    cout<<"variable 1 is"<<var1<<"variable 2 is"<<var2<<endl;
}

```

QNO11:What is the output of following program?

```

int result = 4 + 5 * 6 + 2;
cout << result;

```

ANSWER IS 36

```

int a = 5 + 7 % 2;
cout << a;

```

ANSWER IS 6

**QNO12: Write a program which accepts days as integer and display total number of years, months and days in it.
For example: If user input as 856 days the output should be 2 years 4 months 6 days.**

```

Qno12
#include<iostream>
#include<math.h>
using namespace std;
int main()
{
    int days,months,years;
    cout<<"Enter number of days"<<endl;
    cin>>days;
    years=days/365;
    days=days%365;
    months=days/30;
    days=days%30;
}

```

```
cout<<"years"<<years;
cout<<"months"<<months;
cout<<"days"<<days<<endl;
}
```

QN013: Accept 5 digits no from the user then display following option.

No=12345

Result =15

```
#include<iostream>
#include<math.h>
using namespace std;
int main()
{
    int number,sum=0,dig1,dig2,dig3,dig4,dig5;
    cout<<"Enter a five digit number"<<endl;
    cin>>number;
    dig1=number%10;
    cout<<dig1;
    number=number/10;
    dig2=number%10;
    number=number/10;
    dig3=number%10;
    number=number/10;
    dig4=number%10;
    number=number/10;
    dig5=number%10;
    sum=dig1+dig2+dig3+dig4+dig5;
    cout<<"the sum of all five digits is"<<sum<<endl;
    return 0;
}
```

THE END

