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Object Oriented Programming in C++ _ BE_IT_Day_Spring_2020

Assignment 1

Instruction:

1. Submit the following assignment with in deadline.
2. Submission file name should be: **firstname.roll_assignment1.pdf**
3. **File extension other than pdf is not allowed.**
4. Plagiarism is illegal. Be aware.

Questions:

(Note: Be careful, you are using C++ Syntax (cout, cin) not C syntax (printf,scanf)

1. WAP to find sum, difference and product of two numbers.
2. WAP to find area and perimeter of rectangle.
3. WAP to find Area and Perimeter of Circle.
4. WAP to find Volume of a Cylinder.
5. WAP to find Simple Interest and Amount when P, T and R is given.
6. WAP to input time in seconds and convert to hour, min and Seconds. (*if input is 3605 then output should be 1 Hour 0 Min and 5 Seconds*)
7. WAP to find maximum of three numbers using nested if else
8. WAP to minimum of four numbers.
9. WAP to find sum of N natural numbers.
10. WAP to find Factorial of a given number.
11. WAP to find given number is Palindrome or not.
12. WAP to find given number is Prime number or not.

1. WAP to find sum, difference & product of two num:

```
#include<iostream.h>
#include<conio.h>
void main()
{
    int a,b,sum,prdt,diff;
    cout<<"Enter two numbers";
    cin>>a>>b;
    sum sum = a+b;
    diff = a-b;
    prdt = a*b;
    cout<<"The sum is"<<sum<<"Product
    is"<<prdt<<"and diff is"<<diff;
    getch();
}
```

2. WAP to find perimeter of rectangle and area:

```
#include<iostream.h>
#void #include<conio.h>
void main()
{
    int a,b,peri,area;
    cout<<"Enter length and breadth";
    cin>>a>>b;
}
```



```
peri = 2*(a+b) ;  
area = a*b ;  
cout<<"Area of rectangle is "<<area<<"and it's rectan  
perimeter is "<<peri ;  
    getch();  
}
```

3. WAP to find area and perimeter of circle.

```
#include<iostream.h>
```

```
#include<conio.h>
```

```
void main()
```

```
{
```

```
    float int a, area, peri ;
```

```
    cout<<"enter radius of circle" ;
```

```
    cin<<a<<b ;
```

```
    cin>>a ;
```

```
    area = 4*3.14*a*a
```

```
    peri = 2*3.14*a
```

```
    cout<<"Area of circle is "<<area<<"and it's  
perimeter is "<<peri ;
```

```
    getch();
```

```
}
```


4. WAP to find Volume of cylinder.

```
#include <iostream.h>
```

```
#include <conio.h>
```

```
void main()
```

```
{
```

```
float int a, b, vol;
```

```
cout << "enter radius and height of cylinder"
```

```
cin >> a >> b
```

```
Vol = 3.14 * a * a * b ;
```

```
cout << "Volume of cylinder is " << vol;
```

```
getch();
```

```
}
```

5. WAP to find Simple Intrest and Amount when P, T and R given.

```
#include <iostream.h>
```

```
#include <conio.h>
```

```
void main()
```

```
{
```

```
int P = 1000, T = 1, R = 2, I, A;
```

```
I = (P * T * R) / 100;
```

```
A = P + I;
```

```
cout << "Intrest is " << I << "and Amount is " << A;
```

```
getch();
```

```
}
```


6. WAP to input time in seconds and convert to hour, min and seconds.

```
#include <iostream.h>
```

```
#include <conio.h>
```

```
void main()
```

```
{
```

```
    int T, hr, min, sec;
```

```
    cout << "Enter time in seconds";
```

```
    cin >> T;
```

```
    hr = T / 3600;
```

```
    min = T / 3600;
```

```
    sec = T;
```

```
    hr = T / 3600;
```

```
    min = (T % 3600) / 60;
```

```
    sec = (T % 3600) % 60;
```

```
    cout << "The time is" << hr << "hour" << min << "min" << sec << "sec";
```

```
    getch();
```

```
}
```


7. WAP to find max^m of three number using nested if else.

```
#include <iostream.h>
```

```
#include <conio.h>
```

```
void main()
```

```
{
```

```
    int a, b, c;
```

```
    cout << "Enter any three numbers";
```

```
    cin >> a >> b >> c;
```

```
    if (a > b)
```

```
    {
```

```
        if (a > c)
```

```
        {
```

```
            cout << " " << a << " is maximum";
```

```
        }
```

```
    } else {
```

```
        cout << " " << c << " is maximum";
```

```
    }
```

```
}
```

```
else {
```

```
    if (b > c) {
```

```
        cout << " " << b << " is maximum";
```

```
    }
```

```
    } else {
```

```
        cout << " " << c << " is maximum";
```

```
    }
```

```
    }
```

```
    getch();
```


8. WAP to find minimum of four numbers.

```
#include <iostream.h>
#include <conio.h>
void main()
{
    int a, b, c, d;
    cout << "enter any four numbers";
    cin >> a >> b >> c >> d;
    if (a < b && a < c && a < d)
    {
        cout << " " << a << " is minimum ";
    }
    else if (b < c && b < d)
    {
        cout << " " << b << " is minimum ";
    }
    else if (c < d)
    {
        cout << " " << c << " is minimum ";
    }
    else
    {
        cout << " " << d << " is minimum ";
    }
    getch();
}
```


9. WAP to find sum of N natural numbers.

```
#include <iostream.h>
```

```
#include <conio.h>
```

```
void main()
```

```
{
```

```
    int N, sum, i
```

```
    cout << "Enter the value of N";
```

```
    cin >> N;
```

```
    sum = 0;
```

```
    for (i = 1; i <= N; i++)
```

```
    {
```

```
        sum = sum + i;
```

```
    }
```

```
    cout << "Sum of " << N << " natural num is " << sum;
```

```
    getch();
```

```
}
```

10 WAP to find factorial of a given number.

```
#include <iostream.h>
```

```
#include <conio.h>
```

```
void main()
```

```
{
```

```
    int num, i, fact = 1;
```

```
    cout << "Enter a value of num";
```

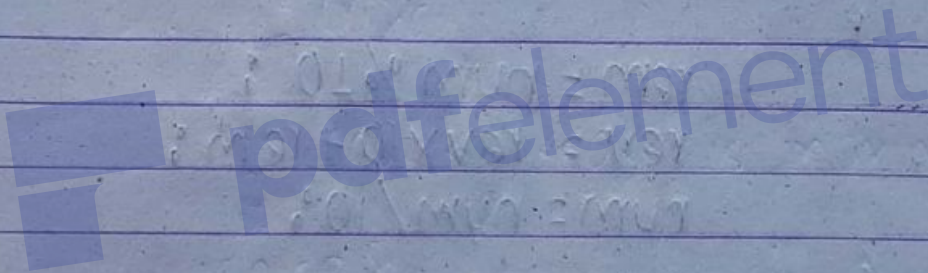
```
    cin >> num;
```

```
    for (i = num; i >= 1; i--)
```

```
    {
```



```
    fact = fact * i;  
}  
cout << "factorial of a number is" << fact;  
getch();  
}
```



WAP to find given number is pallindrome or not.

```
#include <iostream.h>
#include <conio.h>
void main()
{
    int num, a, rev = 0, rem;
    cout << "Enter a number";
    cin >> num;
    a = num;
    while (num > 0)
    {
        rem = num % 10;
        rev = rev * 10 + rem;
        num = num / 10;
    }
    if (a == rev) {
        cout << "The number is pallindrome";
    }
    else {
        cout << "Number is not pallindrome";
    }
    getch();
}
```


12 WAP to find given number is prime or not.

```
#include <iostream.h>
```

```
#include <conio.h>
```

```
void main()
```

```
{
```

```
    int num, i
```

```
    cout << "Enter a number";
```

```
    cin >> num;
```

```
    for (i = 2; i <= num; i++)
```

```
    {
```

```
        if (num % i == 0) {
```

```
            cout << "num is not prime";
```

```
            break;
```

```
        }
```

```
    }
```

```
    if (num == 1) {
```

```
        cout << "num is not prime";
```

```
    }
```

```
    else {
```

```
        cout << "num is prime";
```

```
    }
```

```
    getch();
```

```
}
```