Assignment – 24

Job Ready Bootcamp in C++, DSA and IOT MySirG Functions in C++

1. Define a function to check whether a given number is a Prime number or not.
2. #include<iostream>
3. using namespace std;
4. int Prime(int n);
5. int Prime(int n)
6. {
7. int i;
8. for ( i = 2; i < n; i++)
9. {
10. if (n%i==0)
11. {
12. break;
13. }
14. }
15. if (n==i)
16. {
17. cout<<"Prime Number\n";
18. }
19. else{
20. cout<<"Not Prime Number";
21. }
22. }
23. int main()
24. {
25. int n;
26. cout<<"Enter A Number:"<<endl;
27. cin>>n;
28. Prime(n);
29. return 0;
30. }

2. Define a function to find the highest value digit in a given number.

#include<iostream>

using namespace std;

void GreatN(int n);

void GreatN(int n)

{

    int r,r1,q,c;

        r=n%10;

        n=n/10;

        r1=n%10;

        q=n/10;

    if (r1>=r)

    {

        c=r1;

    }

    else{

        c=r;

    }

    if (q>=c)

    {

        cout<<q;

    }

    else

    {

        cout<<c;

    }

}

int main()

{

    int n;

    cout<<"Enter A Number:"<<endl;

    cin>>n;

    GreatN(n);

    return 0;

}

3**. Define a function to calculate x raised to the power y.**

#include<iostream>

using namespace std;

int Fun(int n, int t);

int Fun(int n, int t)

{

    int i,s=1;

    for ( i = 0; i < t; i++)

    {

        s=s\*n;

    }

    return s;

}

int main()

{

    int n,t,r;

    cout<<"Enter A Number: "<<endl;

    cin>>n;

    cout<<"Enter the Power"<<endl;

    cin>>t;

    r=Fun(n,t);

    cout<<"Calculation is: "<<r;

    return 0;

}

4. Define a function to print Pascal Triangle up to N lines. 5. Define a function to check whether a given number is a term in a Fibonacci series or not. 6. Define a function to swap data of two int variables using call by reference 7. Write a function using the default argument that is able to add 2 or 3 numbers. 8. Define overloaded functions to calculate area of circle, area of rectangle and area of triangle 9. Write functions using function overloading to find a maximum of two numbers and both the numbers can be integer or real. 10. Write functions using function overloading to add two numbers having different data types