```cpp
Ans1. #include<iostream>
using namespace std;
int main()
{
        int a;
        cout<<"enter the number:";
        cin>>a;
        if(a%2==0)
        cout<<"that's the even";
        else
        cout<<"that's the odd";
        return 0;
}
```

```cpp
Ans.2 #include<iostream>
using namespace std;
int main()
{
        int a;
        cout<<"enter the number:";
        cin>>a;
        if(a>99 && a<1000 && a%2!=0)
        cout<<"that's the three odd digit";
        else
        cout<<"that's not three odd digit";
        return 0;
}
```

```cpp
Ans3. #include<iostream>
using namespace std;
int main()
{
        int a;
        cout<<"enter the number:";
        cin>>a;
        if(a>999 && a<10000 && a%2==0)
        cout<<"that's the four even digit";
        else
        cout<<"that's not four even digit";
        return 0;
}
```

```cpp
Ans4.#include<iostream>
using namespace std;
int main()
{
        int a;
        cout<<"enter the number:";
        cin>>a;
        if(a%4==0 || a%5 ==0 || a%6 == 0)
        cout<<"that's divisible by 4,5,6";
        else
        cout<<"that's not divisible by 4,5,6";
        return 0;
}

Ans5.#include<iostream>
using namespace std;
int main()
{
        int a;
        cout<<"enter the number:";
        cin>>a;
        if(a>9 && a<100)
        cout<<"Dushyant";
        else
        cout<<"sorry ERROR U didn't write two digit number";
        return 0;
}

Ans6.#include<iostream>
using namespace std;
int main()
{
        int a,b,c,d;
        cin>>a>>b>>c;
        d = (a>b) ?  (a>c ? a:c) : (b>c ? b:c);
        cout<<"largest no. is"<<d;
        return 0;
}
```

```cpp
Ans7. #include<iostream>
using namespace std;
int main()
{
        int a,b,c,d;
        cin>>a>>b>>c;
        d = (a<b) ?  (a<c ? a:c) : (b<c ? b:c);
        cout<<"smallest  no. is"<<d;
        return 0;
}

Ans8.#include<iostream>
#include<math.h>
using namespace std;
int main()
{
        float n,sq;
        cout<<"enter any number";
        cin>>n;
        sq = sqrt(n);
        cout<<"square root of "<<n<<" is"<<sq;
        return 0;
}

Ans9.#include<iostream>
#include<math.h>
using namespace std;
int main()
{
        float n,r;
        cout<<"enter any number";
        cin>>n;
        r = pow(n,1.0/3.0);
        cout<<"\n cube root of "<<n<<" is"<<r;
        return 0;
}
```

```cpp
Ans10..#include<iostream>
using namespace std;
int main()
{
        char a;
        cout<<"enter ur alphabet";
        cin>>a;
        if(a>=65&&a<=90)
        cout<<endl<<"its an uppercase";
        else
        cout<<endl<<"its not uppercase";
        return 0;
}


Ans.11.#include<iostream>
using namespace std;
int main()
{
        char a;
        cout<<"enter ur alphabet";
        cin>>a;
        if(a>=97&&a<=122)
        cout<<endl<<"its a lowercase";
        else
        cout<<"its not lowercase";
        return 0;
}


Ans12.#include<iostream>
#include<math.h>
using namespace std;
int main()
{
        char c;
        int uppercase,lowercase;
        cout<<"enter ur alphabet";
        cin>>c;
        lowercase = (c=='a'|| c=='e'|| c=='i' || c=='o' || c=='u');
        uppercase = (c=='A'|| c=='E'|| c=='I' || c=='O' || c=='U');
        if(lowercase || uppercase)
        cout<<"its a vowel";
        else
        cout<<"its not vowel";
        return 0;
```

}