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I.D : 16630

Programme : Bs (SE-II) Section (B)

Instructor : Ayub Khan Sir

Q No : 01

ANSWERS :

to check number is  
even or odd.

Programme

```
class Evenodd
{
    public static void main (String args[])
    {
        int no = 11;
        if (no%2 == 0)
        {
            System.out.println ("no is even");
        }
        else
        {
            System.out.println ("no is odd");
        }
    }
}
```

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output ::

no is odd .

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Q No : 02

ANSWER :

To add Complex number

Programme

Class Calc

```
{
    float xreal, float iimg;
}
```

```
Calc() {}
```

```
Calc (float x, float i)
```

```
{
```

```
    real = x;
```

```
    img = i;
```

```
}
```

```
void display ()
```

```
{
```

```
    System.out.println (real + " + i " + img);
```

```
}
```

```
Calc add (Calc c2)
```

```
{
```

```
    Calc res = new Calc ();
```

```
    res.real = real + c2.real;
```

```
    res.img = img + c2.img;
```

```
    return (res);
```

```
}
```

```
}
```

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Class Complex

```

{
    public static void main(String args[])
    {
        Calc C1 = new Calc(12.5F, 2.5F)
        Calc C2 = new Calc(9.5F, 0.5F)

        C1.display();
        C2.display();
    }
}

```

Output %

12.5 + i 2.5

9.5 + i 0.5

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Q No: 03

ANSWER:

To check leap year

Program

```
class Leapyear
```

```
{
```

```
    public static void main (String args[])
```

```
    {
```

```
        int year = 2020;
```

```
        if (year % 400 == 0 || (year % 4 == 0 && year % 100 != 0))
```

```
        {
```

```
            System.out.println("leap year");
```

```
        }
```

```
        else
```

```
        {
```

```
            System.out.println("not a leap year");
```

```
        }
```

```
    }
```

```
}
```

Output:

leap year

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Q No: 04

ANSWER :-

To check number is vowel  
or not.

Program

Class CheckVowel

```
{  
    public static void main (String[] args)  
    {  
        System.out.println ("Enter an alphabet");  
        Scanner s1 = new Scanner (System.in);  
        char ch = s1.next().charAt(0);  
        switch (ch)  
        {  
            case 'a':  
                System.out.println ("entered alphabet is vowel = " + ch);  
                break;  
            case 'e':  
                System.out.println ("entered alphabet is vowel = " + ch);  
                break;  
            case 'i':  
                System.out.println ("entered alphabet is vowel = " + ch);  
                break;  
            case 'o':  
                System.out.println ("entered alphabet is vowel = " + ch);  
                break;  
            case 'u':  
                System.out.println ("entered alphabet is vowel = " + ch);  
                break;  
        }  
    }  
}
```

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default:

```
System.out.println("Entered alphabet
is consonant" + ch);
```

break;

```
}
}
}
```

Output:

Enter an alphabet

a

Entered alphabet is vowel

b

Entered alphabet is vowel

c

Entered alphabet is Consonant

i

Entered alphabet is vowel

f

Entered alphabet is Consonant

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Q No: 05ANSWER:Using Power of numberProgramme

```

public class power
{
    public static void main(String args[])
    {
        int a = 7 , b = 2 , i , ans = 1 ;

        i = b ;
        while (i > 0)
        {
            ans = ans * a ;
            i -- ;
        }
        System.out.println("power of " + a + " = " + ans);
    }
}

```

output:

power of 7 = 128