

SECTION B (60 Marks)
(Answer any four questions from this Section.)

Question 3

```
import java.util.*;
public class Student {

    int age;
    int mks;
    String name;
    String stream;
    void accept()
    {
        Scanner sc=new Scanner(System.in);
        System.out.println("Enter name");
        name=sc.nextLine();

        System.out.println("enter age");
        age=sc.nextInt();

        System.out.println("Enter marks");
        mks=sc.nextInt();

    }
    void allocation()
    {
        if(mks>=300)
            stream="Science and Computer";
        else
            if(mks>=200 && mks<300)
                stream="Commerce and Computer";
            else
                if(mks>=75 && mks<200)
                    stream="Arts and Animation";
                else
                    stream="Try again";
    }
    void print()
    {
        System.out.println("Name:"+name);
        System.out.println("Age:"+age);
        System.out.println("Marks:"+mks);
        System.out.println("Stream:"+stream);
    }

    public static void main(String[] args) {
        Student st1=new Student();
        st1.accept();
        st1.allocation();
        st1.print();
    }
}
```

```
}
```

Question 4

```
import java.util.Scanner;

public class Test {

    public static void main(String[] args) {

        char ch1[]=new char[10];
        char ch2[]=new char[10];
        Scanner sc=new Scanner(System.in);
        for(int i=0;i<ch1.length;i++)
        {
            ch1[i]=sc.next().charAt(0);
            ch2[i]=ch1[i];
        }

        int l=ch1.length;

        for(int i=0;i<l-1;i++)
        {
            for(int j=0;j<l-(i+1);j++)
            {
                if(ch1[j]>ch1[j+1])
                {
                    char t=ch1[j];
                    ch1[j]=ch1[j+1];
                    ch1[j+1]=t;
                }
            }
        }
        System.out.println("original array");
        for(int i=0;i<l;i++)
            System.out.print(ch2[i]+" ");

        System.out.println();

        System.out.println("sorted array");
        for(int i=0;i<l;i++)
            System.out.print(ch1[i]+" ");

    }}
}
```

Question 5

```
class Test
{
```

```

public void print()
{
    int i,j;
    for(i=1;i<=5;i++)
    {
        for(j=1;j<=4;j++)
        {
            System.out.print(i+" ");
        }
        System.out.println();
    }
}
public void print(int n)
{
    int r,s1=0,s2=0;
    while(n>0)
    {
        r=n%10;
        if(r%2==0)
            s1+=r;
        else
            s2+=r;
        n=n/10;
    }

    if(s1==s2)
        System.out.println("lead no.");
    else
        System.out.println("not a lead no.");
}

public static void main(String[] args) {
    Test ob=new Test();
    ob.print();
    System.out.println();
    ob.print(3669);
}
}

```

Question 6

```

import java.util.Scanner;

class Test
{
    public static void main(String[] args) {
        String s;

```

```

Scanner sc=new Scanner(System.in);
s=sc.nextLine();
int l,a=0,d=0,sp=0;
l=s.length();
for(int i=0;i<l;i++)
{
    char ch=s.charAt(i);
    if(Character.isLetter(ch))
        a++;
    if (Character.isDigit(ch)) {
        d++;
    }
    if(!Character.isLetterOrDigit(ch))
    {
        sp++;
    }
}

System.out.println("alphabets:"+a);
System.out.println("digits:"+d);
System.out.println("special chars:"+sp);
}
}

```

Question 7

```

import java.util.Scanner;

class Test
{
    public static void main(String[] args) {
        Scanner sc=new Scanner(System.in);
        double arr[]=new double[5];
        int i,f=0;
        System.out.println("Enter elements of array");
        for(i=0;i<arr.length;i++)
            arr[i]=sc.nextDouble();
        System.out.println("enter value to search");
        double d=sc.nextDouble();
        for(i=0;i<arr.length;i++)
        {
            if(arr[i]==d)
            {
                f=1;
                break;
            }
        }
        if(f==1)
            System.out.println(d+" is present at "+(i+1) +" position");
    }
}

```

```
        else
            System.out.println(d+" is not present");
    }
}
```

Question 8

```
import java.util.Scanner;

class Test
{
    public static void main(String[] args) {
        Scanner sc=new Scanner(System.in);

        int a[]=new int[10];
        int i,s1=0,s2=0;
        for(i=0;i<a.length;i++)
        {
            a[i]=sc.nextInt();
        }

        for(i=0;i<a.length;i++)
        {
            if(a[i]>=0 && a[i]<=9)
                s1+=a[i];
            if(a[i]>=10 && a[i]<=99)
                s2+=a[i];
        }
        System.out.println("sum of 1 digit numbers:"+s1);
        System.out.println("sum of 2 digit numbers:"+s2);
    }
}
```