JAVA SIMPLE PROGRAMS

NAME = PATEL AKASH .S
STD = BCA SEM-5
RO_NO = 495

1) AREA

```
import java.io.*;
class area
{
	public static void main (String arg[])throws IOException
	{
		DataInputStream get=new
DataInputStream(System.in);
		double r,pi=3.14;
		System.out.print("Enter any number for radius::");
		r=Float.valueOf(get.readLine()).floatValue();
		System.out.print("\n\nRadius::"+r);
		System.out.print("\n\nPi::"+pi);
		System.out.println("\n\nArea of circle ::"+pi*r*r);

	}
}
```

2) ARGUMENT

```
import java.lang.*;
class argument
{
	public static void main(String a[])
	{
		System.out.print("\n"+a[0]);
		System.out.print("\n"+a[1]);
		System.out.println("\n"+a[2]);
	}
}
```

3) ARRYOFOBJECT

```
class number
{
	int a,b;
	void getdata()
	{
		a=20;
		b=10;
	}
	void display()
	{
		System.out.print("\nA::"+a);
		System.out.print("\nB::"+b);
	}
}
class arrayofobject
{
	public static  void main(String arg[])
	{
	    number n[]=new number[2];
	    int i;
	    for(i=0;i<2;i++)
	    {
	        n[i].getdata();
	    }
	    for(i=0;i<2;i++)
	    {
	        n[i].display();
	    }

	}
```

```
}
```

4) CONS

```
import java.io.*;
class number
{
	int a,b;
	number(int x,int y)
	{
		a=x;
		b=y;
	}
	void print()
	{
		System.out.print("\n\nNo1::"+a);
		System.out.print("\n\nNo2::"+b);
		System.out.print("\n\nSum::"+(a+b));
	}
}
class cons
{
	public static void main (String arg[])throws IOException
	{
		DataInputStream get = new
DataInputStream(System.in);
		int p,q;
		System.out.print("\nEnter any number::");
		p=Integer.parseInt(get.readLine());
		System.out.print("\nEnter any number::");
		q=Integer.parseInt(get.readLine());
		number n=new number(p,q);
		n.print();
	}
}
```

5) CONS_OVER

```
import java.io.*;
class number
{
	final float pi=3.14f;
	float area;
	number(int r)
	{
		area=pi*r*r;
	}
	number(int l,int b)
	{
		area=l*b;
	}
	void print()
	{
		System.out.print(area);
	}
}
class cons_over
{
	public static void main (String arg[])throws IOException
	{
		DataInputStream get = new
DataInputStream(System.in);
		int r,l,b;
		System.out.print("\nEnter any number::");
		r=Integer.parseInt(get.readLine());
		System.out.print("\nEnter any number::");
		l=Integer.parseInt(get.readLine());
		System.out.print("\nEnter any number::");
		b=Integer.parseInt(get.readLine());
		number n1=new number(r);
		System.out.print("\ncircle::");
		n1.print();
		number n2=new number(l,b);
		System.out.print("\nsquare    ::");
		n2.print();
	}
```

```
}
```

6) EVEN_ODD

```
import java.io.*;
class even_odd
{
        public static void main(String arg[])throws IOException
        {
           int n[] =new int[5],i;
           DataInputStream get=new DataInputStream(System.in);
           System.out.print("\n\nEnter any 5 numbers::\n");
           for(i=0;i<5;i++)
           {
                System.out.print("\n\t");
                n[i]=Integer.parseInt(get.readLine());
           }
           System.out.print("\n\nEven Numbers:: ");
           for(i=0;i<5;i++)
           {
                if(n[i]%2==0)
                   System.out.print(n[i]+" ");
           }
           System.out.print("\n\nOdd Numbers:: ");
           for(i=0;i<5;i++)
           {
                if(n[i]%2!=0)
                   System.out.print(n[i]+" ");
           }
        }
}
```

7) FACT

```
import java.io.*;
class except
{
        int a,i,f=1;
        except(int n)
        {
             a=n;
        }
        void factorial()
        {
             for(i=a;i>=1;i--)
             {
                 f=f*i;
             }
             System.out.println("\n\nFactorial of "+a+" is "+f);
        }
}
class factorial
{
        public static void main (String arg[])throws IOException
        {
            DataInputStream get =new
DataInputStream(System.in);
            System.out.print("\nEnter any number::");
            int no=Integer.parseInt(get.readLine());
            except e =new except(no);
            e.factorial();
        }
}
```

8) FACTORIAL

```
import java.io.*;
class except
{
        int a,i,f=1;
        except(int n)
        {
             a=n;
        }
        void factorial()
        {
             for(i=a;i>=1;i--)
```

```
            {
                f=f*i;
            }
            System.out.println("\n\nFactorial of "+a+" is "+f);
        }
}
class factorial
{
        public static void main (String arg[])throws IOException
        {
            DataInputStream get =new
DataInputStream(System.in);
            System.out.print("\nEnter any number::");
            int no=Integer.parseInt(get.readLine());
            except e =new except(no);
            e.factorial();
        }
}
```

9) FUNC_OVER

```
import java.io.*;
class number
{
        final float pi=3.14f;
        float area;
        void circle(int r)
        {
                area=pi*r*r;
        }
        void square(int l,int b)
        {
                area=l*b;
        }
        void print()
        {
                System.out.print(area);
        }
}
class funs_over
{
        public static void main (String arg[])throws IOException
        {
                DataInputStream get = new
DataInputStream(System.in);
                int r,l,b;
                System.out.print("\nEnter any number::");
                r=Integer.parseInt(get.readLine());
                System.out.print("\nEnter any number::");
                l=Integer.parseInt(get.readLine());
                System.out.print("\nEnter any number::");
                b=Integer.parseInt(get.readLine());
                number n=new number();
                System.out.print("\ncircle::");
                n.circle(r);
                n.print();
                System.out.print("\nsquare::");
                n.square(l,b);
                n.print();
        }
}
```

10) GOTO

```
 import java.io.*;
class goto
{
        public static void main(String arg[])throws IOException
        {
                DataInputStream get=new
DataInputStream(System.in);
                int a,b=0,c=1,n,i;
                System.out.print("Enter any Number :");
                n=Integer.parseInt(get.readLine());
                first:
                {
```

```
                        for(i=0;i<=50;i++)
                        {
                                System.out.print("\n\n\t"+c);
                                a=b;
                                b=c;
                                c=a+b;
                                if(c>n)
                                break first;
                        }
                }
        }
}
```

11) INTREST

```
class  sim_int
{
        int p;
        float r, n,i;
        sim_int(int p,float r,float n)
        {
                this.p=p;
                this.r=r;
                this.n=n;
        }
        void printdata()
        {
                i=p*r*n/100;
                System.out.print("\n\nAmount::"+p);
                System.out.print("\n\nTime duration::"+n);
                System.out.print("\n\nInterest Rate::"+r);
                System.out.print("\n\nSimple Interest::"+i);
                System.out.println("\n\nNet Amount::"+(i+p));
        }
}
class interest
{
        public static void main(String arg[])
        {
                sim_int i1=new sim_int(15000,3,2);
                i1.printdata();
        }
}
```

12) ITEM_DETAIL

```
class  item
{
        int code,qty;
        String name;
        float price,tprice;
        item(int c,String n,float p,int q)
        {
                code=c;
                name=n;
                price=p;
                qty=q;
        }
        void printdata()
        {
                tprice=price*qty;
                System.out.print("\n\nItem Code::"+code);
                System.out.print("\n\nItem Name::"+name);
                System.out.print("\n\nItem Price::"+price);
                System.out.print("\n\nItem Quantity::"+qty);
                System.out.println("\n\nItem Total
Price::"+tprice);
        }
}
class item_detail
{
        public static void main(String arg[])
        {
                item i=new item(201,"Computer",30000,3);
                i.printdata();
        }
```

```
}
```

13) NUM_ARRY

```
import java.io.*;
class num_array
{
     public static void main(String arg[]) throws IOException
    {
         int no[]= new int[5];
         DataInputStream get=new DataInputStream(System.in);
         int i,max=0,min;
         System.out.print("\nEnter any 5 numbers::\n");
         for(i=0;i<5;i++)
         {
              System.out.print("\t");
              no[i]=Integer.parseInt(get.readLine());
         }
         min=no[0];
         for(i=0;i<5;i++)
         {
              if(no[i]>max)
                   max=no[i];
              if(no[i]<min)
                   min=no[i];
         }
         System.out.print("\nMinimum number::"+min);
         System.out.print("\nMaximum number::"+max);
    }
}
```

14) NUM_SORT

```
import java.lang.*;
import java.io.*;
class number
{
         int n[]=new int[5],i;
         void get()throws IOException
         {
                  DataInputStream get=new
DataInputStream(System.in);
                  System.out.print("\nEneter any 5 numbers :\n");
                  for(i=0;i<5;i++)
                  {
                           System.out.print("\n\t");
                           n[i]=Integer.parseInt(get.readLine());
                  }
         }
         void sort()
         {
                  for(i=0;i<5;i++)
                  {
                     for(int j=i+1;j<5;j++)
                     {
                           if(n[i]<n[j])
                           {
                              int temp=n[j];
                              n[j]=n[i];
                              n[i]=temp;
                           }
                      }
                  }
         }
         void print()
         {
                  System.out.print("\n\nSorted number list::");
                  for(i=0;i<5;i++)
                  {
                           System.out.print("\n\n\t"+n[i]);
                  }
         }
}
class num_sort
{
         public static void main(String a[])throws IOException
```

```
        {
                number o1=new number();
                o1.get();
                o1.sort();
                o1.print();
        }
}
```

15) Objarg

```
import java.io.*;
class data
{
        int a,b;
        data()
        {
           a=0;
           b=0;
        }
        data(int x,int y)
        {
                a=x;
                b=y;
        }
        data add (data obj1, data obj2)
        {
                data obj=new data();
                obj.a=obj1.a+obj2.a;
                obj.b=obj1.b+obj2.b;
                return obj;
        }
        void show(data ob)
        {
                System.out.println("\n\nA::"+ob.a+"\tB::"+ob.b);
        }

}
class objarg
{
        public static void main (String arg[] )
        throws IOException
        {
        int d1,d2,p,q;
        DataInputStream get=new DataInputStream(System.in);
        System.out.print("Object-1::");
        System.out.print("\n\nA=");
        d1=Integer.parseInt(get.readLine());
        System.out.print("\nB=");
        d2=Integer.parseInt(get.readLine());
        data dt1=new data(d1,d2);

        System.out.print("Object-2::");
        System.out.print("\n\nA=");
        p=Integer.parseInt(get.readLine());
        System.out.print("\nB=");
        q=Integer.parseInt(get.readLine());

        data dt2=new data(p,q);


        data dt3=new data();
        dt3=dt3.add(dt1,dt2);

        dt1.show(dt1);
        dt2.show(dt2);
        dt3.show(dt3);
        }
}
```

16) recurson_series

```
import java.oi.*;
class recursen
{
        int a=1,b=0,c=1;
        void getdata(int x=1,int y=0,int z=0)
```

```
        {
          a=x;
          b=y;
          c=z;
        }
        void fibonacci(n)
        {
             if(c<=n)
            {
                 System.out.print("\n\n\t "+c);
                 a=b;
                 b=c;
                 c=a+b;
                 fibonaci(n);
            }
        }
}
class recurson_series
{
        public static void main(String arg[])throws IOException
        {
            int x=1,y=0,z=1;
            DataInputStream get=new
DataInputStream(System.in);
            System.out.print("\n\nEnter Maximum Number :");
            int no=Integer.parse.Int(get.readLine());
        }

}
```

17) scan_int

```
import java.io.*;
class scan_int
{
        public static void main(String arg[]) throws IOException
        {
            DataInputStream get=new
DataInputStream(System.in);
            int a,b;
            System.out.print("\n\nEnter any number::");
            a=Integer.parseInt(get.readLine());
            System.out.print("\n\nEnter any number::");
            b=Integer.parseInt(get.readLine());
            System.out.println("\n\nAddition::"+(a+b));
        }
}
```

18) sim

```
import java.io.*;
class number
{
        int a,b;
        void data(int x,int y)
        {
                a=x;
                b=y;
        }
        void print()
        {
                System.out.print("\n\nNo1::"+a);
                System.out.print("\n\nNo2::"+b);
                System.out.print("\n\nSum::"+(a+b));
        }
}
class sim
{
        public static void main (String arg[])throws IOException
        {
                DataInputStream get = new
DataInputStream(System.in);
            int p,q;
            System.out.print("\nEnter any number::");
            p=Integer.parseInt(get.readLine());
```

```
            System.out.print("\nEnter any number::");
            q=Integer.parseInt(get.readLine());
            number n=new number();
            n.data(p,q);
            n.print();
        }
}
```

19) sorting

```
import java.io.*;
class sorting
{
        public static void main(String a[])
        int n[5],i,j;
        System.out.print("\nEneter any 5 numbers ::\n");
        for(i=0;i<5;i++)
        {
                System.out.print("\n\t" +n[i]);
                n[i]=Integer.parseInt(get.readLine());
        }
        for(i=0;i<5;i++)
        {
                for(j=0;j<5;j++)
                {
                        if(n[i]>n[j+1])
                        {
                                temp=n[j];
                                n[j]=n[j+1];
                                n[j+1]=temp;
                        }
                 }
        }
        System.out.print("\n\nSorted number list::");
        for(i=0;i<5;i++)
        {
                System.out.print("\n\n\t"+n[i]);
        }
}
```

20) stat_var

```
import java.io.*;
class  number
{
        static int sum;
        int n[]=new int[5],i;
        number(int no[])
        {
                n=no;
        }
        int calc()
        {
                for(i=0;i<5;i++)
                {
                        sum+=n[i];
                }
                return sum;
        }
}
class stat_var
{
        public static void main(String arg[])throws IOException
        {
                DataInputStream get=new
DataInputStream(System.in);
                int i;
                int no[]=new int[5];
                System.out.print("\nEnter any 5 numbers::\n");
                for(i=0;i<5;i++)
                {
                        System.out.print("\n\t");
                        no[i]=Integer.parseInt(get.readLine());
                }
                number num=new number(no);
```

```
                System.out.println("\n\nSum of all above numbers
::"+num.calc());
        }
}
```

21) static_fun

```
import java.io.*;
class number
{
        static int a,b;
        static void input(int x,int y)
        {
            a=x;
            b=y;
        }
        static void print()
        {
            System.out.print("\n\nNo1::"+a);
            System.out.print("\n\nNo2::"+b);
            System.out.print("\n\nSum::"+(a+b));
        }
}
class static_fun
{
        public static void main (String arg[])
        throws IOException
        {
                DataInputStream get = new
DataInputStream(System.in);
                int p,q;
                System.out.print("\nEnter any number::");
                p=Integer.parseInt(get.readLine());
                System.out.print("\nEnter any number::");
                q=Integer.parseInt(get.readLine());
                number.input(p,q);
                number.print();
        }
}
```

22) static_mem

```
import java.io.*;
class number
{
        static int odd,even;
        int num[]=new int[5],i;
        void input(int no[])
        {
            num=no;
        }
        void count()
        {
             for(i=0;i<5;i++)
             {
                 if(num[i]%2==0)
                     even++;
                 else
                     odd++;
             }
        }
        void print()
        {
            System.out.print("\n\nTotal Even::"+even);
            System.out.print("\n\nTotal Odd::"+odd);
        }
}
class static_mem
{
        public static void main (String arg[])
        throws IOException
        {
                DataInputStream get = new
DataInputStream(System.in);
                int a[]=new int[5],i;
                int b[]=new int[5];
```

```
            System.out.print("\nEnter any 5 number::\n");
            for(i=0;i<5;i++)
            {
              a[i]=Integer.parseInt(get.readLine());
            }
            System.out.print("\nEnter any 5 number::\n");
            for(i=0;i<5;i++)
            {
              b[i]=Integer.parseInt(get.readLine());
            }
            number n1=new number();
            number n2=new number();
            n1.input(a);
            n2.input(b);
            n1.count();
            n2.count();
            n2.print();
        }
}
```

23) swap

```
class swapping
{
        int a,b;
        swapping()
        {
            a=50;
            b=80;
        }
        void swapp()
        {
            a=a+b;
            b=a-b;
            a=a-b;
        }
        void print()
        {
           System.out.print("\n\nA::"+a);
           System.out.println("\n\nB::"+b);
        }
}
class swap
{
        public static void main (String arg[])
        {
            swapping s=new swapping();
            s.print();
            s.swapp();
            System.out.print("\nNumbers after swapping");
            s.print();
        }
}
```

24) switch_help

```
import java.io.*;
class menu
{
        void helpcont()
        {
                System.out.print("\n\nHelp on ::");
                System.out.print("\n\n1.If ");
                System.out.print("\n2.Switch");
                System.out.print("\n3.While");
                System.out.print("\n4.Do while");
                System.out.print("\n5.For");
                System.out.print("\n6.Exit");
        }
        void select(int cho)
        {
            switch(cho)
            {
                case 1:
                        System.out.print("\n\nHelp on if::");
                        System.out.print("\n\nif(Condition)");
                        System.out.print("\n\tstatments;");
                        System.out.print("\nelse");
```

```
                System.out.println("\n\tstatments;");
                break;
            case 2:
                System.out.print("\n\nHelp on Switch::");

        System.out.print("\n\nswitch(expression)");
                System.out.print("\n\tcase
result1:\n\t\tstatments;");
                System.out.println("\n\t\tbreak;");
                break;
            case 3:
                System.out.print("\n\nHelp on While::");
                System.out.print("\n\nwhile(Condition)");
                System.out.println("\n\tstatments;");
                break;
            case 4:
                System.out.print("\n\nHelp on Do while::");
                System.out.print("\n\ndo");
                System.out.print("\n{\n\tstatments;");
                System.out.print("\n}\nwhile(Condition)");
                break;
            case 5:
                System.out.print("\n\nHelp on For::");

        System.out.print("\n\nfor(Init;Condition;Increment");
                System.out.print("\n{\n\tStatments\n}");
                break;
            case 6:
                System.out.println("\n\nGood Bye.....");
                break;
          }

        }
}
class switch_help
{
        public static void main(String args[])throws IOException
        {
            int ch,i=1;
            DataInputStream get= new
DataInputStream(System.in);
            menu m=new menu();
            m.helpcont();
            do
            {
                System.out.print("\nWhat do you want?");
                ch=Integer.parseInt(get.readLine());
                if(ch>6)
                  continue;
                m.select(ch);
                 i++;
            }
            while(ch>6);
        }
}
```