**1ST QUESTION:-**

1.Start

2. create a class.

3. define & intialize temp,digits,last,sum

4. assign n into a temp

5.usingusing %10 seprate values.

6. create loop(while)

7. calculate last power of number

8.remove last digit

9.compare sum with n

10.check if else condition.

11.check method if else condition

12.stop

**2ND QUESTION:-**

1. Start

2.create and intialize I ,arm

3.create while loop

4.intialize arm and call armstrongorNot()

5.create if condition

6.increment i

7.create armstrongorNot() with 1 formal arg

8.create and intialize x and a

9 create while condition

10.apply conditions

11.return a

12.stop

**3rd question:-**

1.start

2.create calculate() with more than one formal arg(int p,int t,int r,int n)

3. create amount and intialize with this apply formula P (1 + R/n) (nt) - P

4.crete inter and amount-p

5.create obj

6.pass value inside obj

7.stop

**5th question:-**

1.start

2.create class AnnualsalTx

3.create scanner for input

4.create & intialize (empcode,s,d)

5.create and intialize (ti ),( r is intialize with tax payable percentage )

6.appply nested if else

7.check its <=(180000,300000,500000,100000)

8.intialize tax and apply formula (ti\*r/100)

9.print(empcode,ti,tax)

10.stop

**7th question:-**

1.Start

2.create method called check(int arr[],int tocheckvalue).

3.use liner search method.

4.used for each loop to check condition

5.if its true then move forword

6.define array inside main()

7.define to check value.

8.check(arr,tocheckvalue)

9.print result

10.stop

**8th question:-**

1.start

2:create bubbleSort() inside method intialize Array

3.define and intialize (int n=arr.length)(temp=0)

4.used 2 for loops intialize with (i,j)

5.used if(arr[j-1] > arr[j]) its true the swap elements

6.create main ()

7.intialize arr[]

8.used for loop before sort(i)

9.call method (bubbleSort)

10.stop

**4th question:-**

1.start

2.divide array block into size of squrt(n)

3.Make a count array which stores the count of element for each block.

4.Pick up the block which has count more than sqrt(n), setting the last block

as default.

5.For the elements belonging to the selected block, use the method of hashing(explained in next step) to find the repeating element in that block.

6.We can create a hash array of key value pair, where key is the element in the block and value is the count of number of times the given key is appearing.

7.check if condotion if(count==3) passed

8.check if condotion if(count==2) pramoted

9.check if condotion if(count==1) failed

10.print

11.stop

**6th question:**

1.start

2.create scanner class

3.create method authontication with 2 formal arg(username,pass)

4.create for loop (attempt<numberofattempt)

5.if condition (username==" ")

6.return confirm

7.if (credentials.match(password))

8.wrongpassattempt (attempt, numberOfAttempts);

9.print result successful

10.stop

**9th question:**

1.start

2.create scanner class

3.intialize A,B,C

4.create and intialize add (A+B+C)

5.create and intialize avg= add/3

6.create and intialize percent=(add/300)\*100

7.print (add,avg,percent)

8.stop