**LOOP**

1. Accept 10 number user and do sum of it.(do not use array)
2. Accept a number from user and find a factorial of a number
3. Accept 10 number from user count how many are positive ,negative , zero
4. Accept a number from user and do sum of digit
5. Accept a number from user and reverse it.
6. Accept a number from user and check if it is palindrome number or not eg (121)
7. Accept a number from user and print a table of that number
8. Accept a number from user check if it is special number or not
   1. Eg.145
   2. 1! =1
   3. 4!=1\*2\*3\*4
   4. 5!=1\*2\*3\*4\*5 sum of it(1+24+120=145)
9. Accept a number from user and check if it is armstrong number or not
   1. Eg 153
   2. 1 cube
   3. 5 cube
   4. 3 cube sum of it (1+27+125=153)
10. Go on accepting number from user till user enter 0 and do sum of it.\*
11. Accept a number from user and print next 5 numbers.
12. Accept a number from user and print that many numbers after the number.
13. Accept start and end range from user and print all even number between them. (two answer)
14. Accept start and end range from user and print all odd number between them. (two answer)
15. Accept term from user and print Fibonacci series\*
16. Accept two number from user and print it’s LCM\*
17. Accept a number from user accept a digit from user and check the occurrence of that digit
18. Accept 10 number from user and print highest number\*
19. Accept 10 number from user and print lowest number.\*
20. Accept 10 number from user and print highest and 2nd highest number.\*
21. Write a prog to print every integer between 1 and n divisible by m. also report whether the number that is divisible by m is even or odd.
22. Print all special number between 1 to 200000
23. Print all Armstrong number between 100 to 999
24. Print all prime number between 51 to 100

In all example we will simply write a class and static method

Ans 1:Accept 10 number from user and do sum of it.(do not use array)

no

4

5

1

6

2

**import** java.util.\*;

**public** **class** Logicsum {

sum

**public** **static** **int** sumoftennumber()

{

0

4

9

10

16

18

**int** i,no,sum=0;

Scanner sc=**new** Scanner(System.***in***);

**for**(i=1;i<6;i++)

{

no=sc.nextInt();//4

sum=sum+no;

}

i

**return** sum;

}

1 2 3 4 5 6

}

1

2

6

24

Ans 2: Accept a number from user and find a factorial of a number

**public** **class** Logicsum {

i

**public** **static** **int** factorial(**int** no) //4

2 3 4 5

{

**int** i,f=1;

**for**(i=2;i<=no;i++)

no

{

4

f = f \*i;

}

**return** f;//24

}

}

Ans : Accept a number from user and reverse it.

**public** **class** Logicsum {

**public** **static** **int** revesenumber(**int** no))//185

{

r

no

rev

**int** r,rev=0;

0 5 58 581

5 8 1

0

**while**(no!=0)//18 1

{

r=no%10;

rev=rev\*10+r;

no=no/10;

}

**return** rev;

}

}

Ans: Accept a number from user and check if it is palindrome number or not eg (121)

**public** **class** Logicsum {

**public** **static** **boolean** palindrome(**int** no)

{

**int** r,n,rev=0;

n=no;

**while**(no!=0)

{

r=no%10;

rev=rev\*10+r;

no=no/10;

}

**if**(rev==n)

**return** **true**;

**return** **false**;

}

}

Entry point class:

**import** **static** java.lang.System.***out***;

**import** java.util.\*;

**public** **class** Myclass {

**public** **static** **void** main(String[] args) {

Scanner sc=**new** Scanner(System.***in***);

**int** no=sc.nextInt();//2

**boolean** r= Logicsum.*palindrome*(no);//4

**if**(r==**true**)

***out***.println("Number is palindrome");

**else**

***out***.println("Not a palindrome");

}

}

Ans: Accept a number from user check if it is special number or not

145=>

5🡺120

4🡺 24

1🡺 1

Sum🡺145

**public** **class** Logicsum {

**public** **static** **boolean** isspecial(**int** no) //145

{

**int** r,n,sum=0;

n=no;//145

**while**(no!=0)//14 1 0

{

r=no%10; //5 4 1

sum=sum+*factorial*(r);//120 24🡺144 1 🡺145

no=no/10;1

}

**if**(sum==n)

**return** **true**;

**return** **false**;

}

**public** **static** **int** factorial(**int** n)//5 4 1

{

**int** i, f=1;

**for**(i=2;i<=n;i++)

{

f=f\*i;

}

**return** f;//120 24 1

}

}

Entrypoint class

**import** **static** java.lang.System.***out***;

**import** java.util.\*;

**public** **class** Myclass {

**public** **static** **void** main(String[] args) {

Scanner sc=**new** Scanner(System.***in***);

**int** no=sc.nextInt();//145

//for(no=1;no<=200000;no++){ use long int

**boolean** r= Logicsum.*isspecial*(no);//145 true

**if**(r==**true**)

***out***.println("Number is special number");

**else**

***out***.println("Not a special number");

//}

}

}

Ans: Accept start and end range from user and print all even number between them.

**import** **static** java.lang.System.***out***;

**public** **class** Logicsum {

**public** **static** **void** evenrange(**int** s,**int** e) //11 30 // 2 20

{

**for**(**int** i=s;i<=e;i++)

{

**if**(i%2==0)

***out***.printn(i);

}

}

}

OR you can optimize

**import** **static** java.lang.System.***out***;

**public** **class** Logicsum {

**public** **static** **void** evenrange(**int** s,**int** e) 3 30

int r=n%2;

if(r==0)

return true;

else

return false;

{

**boolean** b=*isodd*(s);

**if**(b==**false**)

s=s+1;

**for**(**int** i=s;i<=e;i=i+2)4

{

***out***.print(i);

}

}

**public** **static** **boolean** isodd(**int** n) //3

{

**return** n%2 == 0; //3%2(1)==0 🡺false

}

}

Ans: Accept term from user and print Fibonacci series

**import** **static** java.lang.System.***out***;

**public** **class** Logicsum {

**public** **static** **void** fib(**int** s)

{ **int** a,b,c;

a=0;

b=1;

***out***.print(a+ " "+b);

**if**(s>2)

{

**for**(**int** i=1;i<=s-2;i++)

{

c=a+b;

***out***.print(" "+c);

a=b;

b=c;

}

}

}

}

1. Accept two number from user and print it’s LCM\*

Ans:Accept a number from user accept a digit from user and check the occurrence of that digit

**public** **class** Logicsum {

**public** **static** **int** occurance(**int** no,**int** n)

{ **int** r,c=0;

**while**(no!=0)

{

r=no%10;

**if**(r==n)

c++;

no=no/10;

}

**return** c;

}

}

Ans: Accept 10 number from user and print highest number

**import** java.util.\*;

**public** **class** Logicsum {

**public** **static** **int** max()

{

Scanner sc=**new** Scanner(System.***in***);

**int** no=sc.nextInt();//2

**int** max=no;

**for**(**int** i=2;i<=10;i++)

{

no=sc.nextInt();

**if**(max<no)

max=no;

}

**return** max;

}

}

Ans: Accept 10 number from user and print highest and 2nd highest number

Ans: Print all special number between 1 to 200000

**import** **static** java.lang.System.***out***;

**public** **class** Logicsum {

**public** **static** **void** printspecial()

{

**for**(**int** i=1;i<=200000;i++)

{

**boolean** b=*isspecial*(i);

**if**(b==**true**)

{ ***out***.println(i);}

}

}

**public** **static** **boolean** isspecial(**int** no)

{

**int** r,n,sum=0;

n=no;

**while**(no!=0)

{

r=no%10;

sum=sum+*factorial*(r);

no=no/10;

}

**if**(sum==n)

**return** **true**;

**return** **false**;

}

**public** **static** **int** factorial(**int** n)

{

**int** i, f=1;

**for**(i=2;i<=n;i++)

{

f=f\*i;

}

**return** f;

}

}

Ans: Print all prime number between start to end

**import** **static** java.lang.System.***out***;

**public** **class** Logicsum {

**public** **static** **void** printprime(**int** s, **int** e)

{

**int** i;

**boolean** b=*isodd*(s);

**if**(b==**true**)

i=s;

**else**

i=s+1;

**for**( ;i<=e;i=i+2)

{

**boolean** p=*isprime*(i);

**if**(p==**true**)

{ ***out***.println(i);

}

}

}

**public** **static** **boolean** isprime(**int** no)

{

**int** i,flag=0;

**for**(i=2;i<=no/2;i++)

{ **if**(no%i==0)

{ flag=1;

**break**;

}

}

**if**(flag==0)

**return** **true**;

**return** **false**;

}

**public** **static** **boolean** isodd(**int** s)

{

**return** s%2!=0;

}

}