```
20JR 1A05A5
    Prime number:
    h = Pot (input())
 Pf n>=2:
    f=0
   for i in range (2, tht (n**0.5)+1):
          if n% i==0:
   if f == 0:
                                                         29 is prime
        print ( 1 %d is prime 1% n)
        postnt ('xd & not postme'%n).
2) preme numbers range:
    def primes(n):
             pm = [True] * (n+1)
             pom[o] = pom[i] = folse.
             P=2.
             where pxp =n:
                 if pomtp]:
                       for ? in range (P*P, n+1, P):
                               prm[f]=False (1) to
             return primin
  X= Ant (Prote )
  count-0
   number=2
  while count La:
            of pormes (humber):
                    count+=1
                                                             COMMEN
                   prht(number), end = ' ')
            homber +=1
                                             《大·为史·张·明生》44.65
```

```
20 JRI A05 A5
  Armstrong or Not:
   X=9nt(Propot())
   longth= len(sto(x))
   temp-x
   som=0
          x 70%
            som=som+. (x %10)** tength
                                                        outputs 153
                                                                153 PS Aromstrong humber
            9=2/10
    if som == KAMP:
            pilit (a, is posse Armstoung number!)
           print (x, 18 not comstrong number)
(4) Armstorny from M to N2:
    def
           arm (n) t
             rength = Icn(Sto(n))
                                                          output: 1
              temp=n
              sum=0
              whele noo:
                                                             1 23456789
                 som=som+ (n%10)** leng th
                  n=n//10
               of sum == temp :
                        proport (n)
   hi=fint (input())
   m=int (input())
   for i in range (n, n+1):
               arm(P)
      leap year or not
(5)
     y= fot (Poput())
                                                                 output: 2024
    if ( 4 %4 = =0 and (4 x 100 f=0 or A x 400 ==0))?
                                                                          reap year.
                   print ('leap year')
             print ( I won leap year).
```

```
20TRIA05A5
     reverse of given numbers (00) ballugame:
     n= Pht (Phput())
     temp=0; ti=n
     where noo:
             temp= temp*10+ 11/010
              n=n//10
                                                           121
                                                output :
                                                           palindrome
     if ti== temps
              posint ( paulindoome)
             print (' not parindrome)
      8.9219
    h=fint(input())
(7)
     temp=0
     ti=h
                                                         output: 123
     while hose
                                                               the reverse of given
            temp= tempx10 +n 1/10
                                                               number is 321
             カニハハい
     pasht ('The reverse of gluen number is', temp).
                                                              n Breed 18
    Fibonaccio ;
    n=int(input()) def fib(h):
                                of n==00
    n1=0
   ne=0 "
                                       return o
                                 else if n==1 or n==2:
                                           return 1
                                 8 0219
                                       return feb(n-1)+feb(n-2)
                          x=int(input())
```

pint (facz)

outpot %

5

```
20 JRIAOSAS
   Scoapping of elements:
      a= Pht ( Phpot ())
       b=Ant ( Ahart())
       postit (aib)
      #1
        a=a+b
        b= a-b
        a=a-b
                                        output.
                                                 10
        postit (a16)
                                                 20
                                                     10
     #2
                                                 20
       a=a * b
        bzalb
        a=a/b
       prfit(aib)
     #3
        a=cenb
       b=anb
      a=anb
       print(a1b)
     Declinal to binary;
(10)
    n=9ht (Pnpot())
                                                     13
                                           output:
   b9n=' '
                                                  1101 (1144)
   where hoos
          bin = str(n/2) + bin
           h=n//2
   prent (ben).
(11)
     Benary to decimal.
    brhazy = Protc)
     expo = len(binasy)-1
     decemal=0
     for ? In binary ,
                                                                 15
            PF P==1 8
                    declimal += Pot(P)*(2xx expo)
              exp0-=1
    pront decemai
```

```
binary to octai;

binary = souti)

scheck multiple of 2 or not . - -

while ian(binary)*3 = 0 :

binary = '0'+binary

cotai = ''

?-0

while frian (binary);

dearmae = soutae + str(decimal)

?+=3
```

point (octal).

output: 10/01/

53