Or write a java program to input the height of the puesas and check if the height of the purson is greater than or equal to 6 feet then print the message "The puesas is tall". Ans import java util Scanner; public class A3Q01 S public statec void main (streing [] args) { Scanner sc = new Scanner (System in); ent h; System out prently (" cuter ithe height of the person"); h = sc. nextlent (); if (h >=6) System out println (c'Ilu person us tall"); Sc · close (); denter the height of the person The person is tall Q20 civile a java program to imput the mark of a sed students and check if the student work its greater than or equal to 40, then it generates the following Congratulation! You have passed the exam?.
Otherwise the output nussage is
Socry! You have failed the exam?? nussage.

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S

Ans. public class A3G02 S public static void main (String [] augs) { Scanner sc=rew Scanner (system is); unt mark; System out printle (" center ille mark
of the student"); mark = Sc. nextent(); of (mark>= 40) System. ord. pounds (" Congratulations! You have passed the exam"); System out paintles (ce sorry! You have failed the exam " sc.dose(); Output: unter the march of the student Congratulations! You have passed the Q3. Input an integer through the keyboard write a java program to find out whether it is an odd number or ever number. Ans import java. util Scanner; public class A3Q03 & public static void main (string [] augs)}

```
Scanner sc=new Scanner (system in);

unt n;

system out prentln (" lenter a number");

n = sc. next and ();

uf (n > 2 = =0)

System out prentln (" lenur number");

clse

System out prentln ("odd number");

sc. close();

}
```

Output: Lutin a number 45 Odd number

G4 Any character is entired through the keyboard, write a java program to determine whether the character entired is a capital letter, a small case letter, a digit or a special symbol. The following table shows the marge of ASCII values for various character.

Characters	ASC 11 Values
A-Z	65 -90
a - Z	97-122
0-9	48-57
Special Symbol	0-47,58-64,91-96,123-127

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```
Ans emporet java tetil Scanner;
         public class $ A3Q04}
             public states void mais (string args) }
               charc;
               Scanner Sc= new Scanner (System vin);
System. out. println ("Enter a character");
               c=sc.nent(). Chax A+(o);
              4 (C>=65 && C <=90)
             System. Out. preintln ("The cultred character is an
              else if (6>= 039 9 3 && (<= 122)
             System out println (ce In entired character
                           is on dowercase);
              else if (C>=48 && C <=5-7)
             System out proulln ("it is a digital");
             clesif ((c>=0 && C<= 47)11 (c>=58&& c <=64))
                  1(c>91 && c<=96) 11 (c>=123 &&
            System out prentle ("It is a special character");
            cles systemout preintly ("Invalid Input");
             sc.closel);
output: lenter a character
         The culoud character is a clouver case
```

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```
uniport java util. Scanner;
Auss.
        public class A39 5 &
               public static void main (string [] args) {
                  Scanner oc = new scanned System in);
                   Eystern out printle (" renter a, b, c: ");
                  double a = sc. next Doubb ();
                  double b = sc . next Double ();
                  double c = sc. next Double ();
                  double discriment = Math. pour (b,2)-2*a*c;
                  Eystem out perent (" The can has");
                  if (discrimenant >0) }
                double root: = (-b+ Math poer (die virminate, 0.5)
                double voot 2=(-br math pour (des acinanal, 0-5))
                Eystem out preintly!" two roots "+ root 1+
                         " and ">+ veoof 2);
                     } bless if (
                       des ocimenate == 0) S
               double root 1 = (-b + Math. pour (dis vun ant, 0.3))
               System out preintln ("one voot" + root");
               3 che
               System out prenter ("no rual rotes")
               sc. close ();
```

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Output: Jenler a,b,C:121 The eq," has one rood -1,0 Aus import java util Scanner; Public class A3606 § public static void main (string [] args) { Scanner sc = new Scanner (system in); System out prient (" renter a, b, c, d, e, f:"); double a = sc. next Double (); double 6 = SC. next Doeslole (); double c = sc. next Double (); double of = sc-rext Double (); double e = sc. next Double (), double f = sc. next Double !); ef (a\*d-b\*c'==0) System out println ("The eg" has no solution "); clee { double n = (e\*d-b\*f)/(a\*d-b\*c); double y = (a\*f-e\*c)/(a\*d-b\*c); Eystern out preintln (is" + x + "and y is "2+y); Sc. close(); Oletput: lenter a, b, c, d, e, f: 943-5-6-21 21 is - 2.0 and y is \$2 3.0

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```
Ans 7. import java util Scanner;
            public class A3907 }
                   public static void main (string[]args)}
                     Scanner 60 = new Scanner (System en);
                     double x, y;
                     System out preint (" Enter the x and y coordinate
                                      respectively: ");
                     oc = sc. nextDouble ();
                     y = Sc. next Double();
                     af (n==0)
                 System oud preint ("("+x+","+y+")") is on the y axis");
                 clse ef (4 = = 0)
                 System out print ("("+x+","+y+")) is on the x alke");
                 else if (26>0& & 420)
                System out preint ("(4 x+2), "+y+") is on the first eq")
                elsi if (x <08.84>0)
                Eysten outpriently ("("+x+","+y+") is on the second
                else if (2 <0 && y <0)
               System. Out. poientln (ce («+x+2), «+y+2) às on dhe third
              System Old pleintle ("("+x+", ("+y+")) is at center");
               else
              sc. close ()
          unter the x and y coordinate respectively:-1,-2.2
output:
          (-10,-2.5) as on the third
```

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Aus. import java util scanner; public class A3 G085 public static void mais (string II augs) { Sconner Sc = new Sconner (System in); out realul, aguels, ajay ; System out println (" renter other ages of Rahul", Ayersh, May respectively "); ruhul: sc . next sut (); ayush = sc. nextent (); ajay = sc · nextant(); of loiobul > agustiss vahul > ajay) System out picielles ("Rahul is the eldest among them"); else ef (ayush > rabul & & ayush > azay) System out prently ("Ayush is the eldest among them"); systemout priorthe (c. Ajay is the eldest among them"), sciclose(); output: unter the ages of Robert, Ayush, Ajay respectively 23 45 20 Ayush is the cloust among them. Aug Public class A3009 public States void main (string [] augs){ ant month = (unt) (Math viandom () \* 12) +1); Switch (month) Case 1: System out-printly ("January"); breaks

```
Case 2: Eysten out paintln ("February"); bueak;
Case 3: System out prendln ("March"); break;
Case 4: System out prendln ("April"); break;
case 5: System out prendln ("May"); cbreak;
case 6: System out prendln ("July"); break;
Case 7: System out prendln ("July"); break;
case 8: System out prendln ("August"); break;
case 8: System out prindln ("Esptember"); break;
Case 9: System out prindln ("Esptember"); break;
Case 1: System out prendln ("October"); break;
Case 1: System out prendln ("November"); cbreak;
Case 1: System out prendln ("November"); cbreak;
Case 1: System out prendln ("November"); cbreak;
```

Output: June

edns 10. import java util scanner;

public class A3G10 {

public static void main (string [] augs) {

Summer SC = new Scanner (System · in );

System. Out. prent (ee unter the number of days clapsol

eint tday = 60 "Nent Int ();

system. out. prent (ee unter the number of days clapsol

eine today: "");

ent days clapsol = SC. next Int ();

ent futereday = (tday + days clapsol):/. 7'8;

System. out. prent ("Joday is");

sucitats (tday) {

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```
CaseO: System. out. picent (" Sunday"); buck;
         Case 1: System out preint (" Wonday"); delak;
        Case 2: Systems out preint ("Tuesday"); dereak;
        Cases: system. out. prient (" Do wednesday"); becak;
        Case 4: Egstem. Out. perint (et Thrusday ?); buch;
       Cases: System out prient ("Friday"); bush;
       Cases: system out paid ( Sator day ?) ; -
       Eystun out. Reint (" and dhe fective day is?);
       Swilch (futurday) }
      Case O: Eyslem outpriently ["Sunday"), bueak;
      case 1: System out prently ("Monday"); becak;
      Casez: System out printle (" Tuesday"); break;
     Cass: system out precitly ("wednesday"); break;
     Case 4. System out printly ("Thousday"); break;
     Case 6: System out preciales ("Friday"); buck; Case 6: System out preciales ("Saturday"); buck;
      sc. close();
Output: "enter doday's day:1
        center the muniber of days clapsed usince today:
        Today ies modeday and the fertiers day is three
```

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Aus 11. import javo idil scouner; public class A3Q115 public states void main (String [] augs) } Scanner SC = New Scarner (Sepstern in) { System out preint (" center the weight of a double ut = SC. next Double (); double nt = SC. next Double (); double BMI = cut/(ht \* ht); System. out. precitter ("cender areight"); clse of (BMI>=18.5 && BMI < 25) System out printly ("Normal weight"); else if (BMI>= 25 && BMI < 30) System. out. precitle ("Ouer weight"); System out preintles (" obbse "); sc. close(); center the weight of a pieson in Kg and height in meter: 60 1.6 BMI = 23.4374999999 Normal weight. Ans 12: comport java util scanner; public class A3Q12 } public states void main (streing [] args) {

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unt n1, n2, n3;

```
Scanner SC = new Scanner (Eystern in) >
Eysten out print ("deuter Shree Sutegers");
         ni = scinextout();
         n2 = SC. next and ()'s
          13 = 50 next get () 3
         ent temp;
     4 ((n2<n1) 11(n3<n1));
          4 (n2<n1)}
                    tump = n1;
              11=n2;
              n2= temp;
             uf (n3<n1) }
                      temp = n13
                 n3=n3;
                  n3 = temp;
                ef (n32n2){
                          temp=n2;
                     n2=n3;
                       N3 = temp's
                System out prentln (ce Integers in non-
decreasing order "+n1+" "
                                               (e+n3);
       Sc. Close ();
```

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```
iaun util 'comme
     . sugar
day 1 %
      public class A girl
           public states void main ( strong [ ] areas) &
              Beautie ac . new a course ( Eystein de) :
              Eyelem out point (" buter the worth or enteger
              and mouth , as went but )
              Eyetem out point (" dutie the year as enliger ");
              and year - sc new ( sut ( );
              boolian liapyear - (year/11 = 088 year 1/100] -0)11
                      (year 1/2 400 = 0);
              Switch (month)
              Case 1 : System out prink
              "January" + year + " had sidays"), break,
              Case 2 System out pruntln ("Fetrum " + year + " had 7
              ((bop year)? "29 days" "28 days")); break;
             Case 3 System out printly (
             "March"+ year + "had 3, days"); buck,
             Case 4 System Out preintly (
             "April " year + " had sodays"); becak;
             Cosis system out printler (
             "Approxy" is year of had 31 days") is break;
            Case 6: System out pounded
            " Jun" of year " had so days"); breat;
            Case & Systemout printler (
           " July" + year +" had so days"); break;
           Case : System out println(
          "August" + year + " had 31 days"); break,
           Cose a: System out println!
           " September " + year +" had 30 days") is break;
```

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```
Case 10: System out printly (
    " outloker" + year + " had 31 days"); break;
     Carl 11: System out println(
    "November" + year + " had 30 days"); break;
     Case 12: System out pountly
     "Recember"+ year + " had 31 days");
       Sc. close();
 Output: - lenter the month as integer: 2
             renter ette year as inleger: 2020
             February 2020 has 29 days.
idus 14. import java citél Scanner;
             public static void main (steering [] args) {
        public class A3Q14 S
               scanner sc= new scanner(system in);
             und usur = sc. next ent ();
              System out preint (er The Computer is?);
              Suutch (computer) &
              Caso: System out peunt (" Secesor "); break
              casi: System out print (" vock "); break
              cor: system out prient (" paper").
              System. out prient (" you are?") >
              Smitch (user) {
              Case O: System. Out privi ("Scusor"); buck;
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Case 1: Eyelton out fried ("rock"); Louak; Caser Eystem out print("paper"); 5 if ( computer == uses) System out println ("Joo. It is a draw"), eles if ( (user == 0 & & computer == 2) 11 (user == 1 & & computer == 0) { system out println(" you war");} System out preint (". You dose ")) sciclose (); Ineport java; util scanner; ANSIS public class A3Q15 5 public static void main (string [] args) { Scanner sc = new Scanner (system in), Eyetim out print (et enter a point well two coordinates: "); double x = sc next Double (); double y = sc next Double (); double destance - Math. pour (Math. pour (x, 2)+ Math pow (4,2) 0.5), ef (distance <=10) System out println ("Point dus in the circh"); else. systemout . peunlis l'Pourils does not ili in the wich"): sc close ():

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