If else (13- 21 )

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| 13.  #include<stdio.h>  int main()  {  int gam,notes;  printf("Input the amount : ");  scanf("%d",&gam);  notes=gam/1000;  gam=gam%1000;  printf("note of 1000 = %d\n",notes);  notes=gam/500;  gam=gam%500;  printf("note of 500 = %d\n",notes);  notes=gam/100;  gam=gam%100;  printf("note of 100 = %d\n",notes);  notes=gam/50;  gam=gam%50;  printf("note of 50 = %d\n",notes);  notes=gam/20;  gam=gam%20;  printf("note of 20 = %d\n",notes);  notes=gam/10;  gam=gam%10;  printf("note of 10 = %d\n",notes);  notes=gam/5;  gam=gam%5;  printf("note of 5 = %d\n",notes);  notes=gam/2;  gam=gam%2;  printf("note of 2 = %d\n",notes);  printf("note of 1 = %d\n",notes);  return 0;  } | 14.  #include <stdio.h>  int main()  {  int angle1, angle2, angle3, sum;  printf("Enter three angles of triangle: \n");  scanf("%d %d %d", &angle1, &angle2, &angle3);  sum = angle1 + angle2 + angle3;  if(sum == 180 && angle1 != 0 && angle2 != 0 && angle3 != 0)  {  printf("Triangle is valid.");  }  else  {  printf("Triangle is not valid.");  }  return 0;  } |
| 15.  #include <stdio.h>  int main()  {  int side1, side2, side3;  printf("Enter three sides of triangle: \n");  scanf("%d%d%d", &side1, &side2, &side3);  if((side1 + side2) > side3 && side1 !=0 && side2 !=0 && side3 !=0)  {  if((side2 + side3) > side1)  {  if((side1 + side3) > side2)  {  printf("Triangle is valid.");  }  else  {  printf("Triangle is not valid.");  }  }  else  {  printf("Triangle is not valid.");  }  }  else  {  printf("Triangle is not valid.");  }  return 0;  } | 16.  #include <stdio.h>  int main()  {  int side1, side2, side3;  printf("Enter three sides of triangle: ");  scanf("%d%d%d", &side1, &side2, &side3);  if(side1==side2 && side2==side3)  {  printf("Equilateral triangle.");  }  else if(side1==side2 || side1==side3 || side2==side3)  {  printf("Isosceles triangle.");  }  else if(side1 !=0 || side2 !=0 || side3 !=0)  {  printf("Scalene triangle.");  }  return 0;  } |
| 17.  #include<stdio.h>  #include<math.h>  int main()  {  double a,b,c,root1,root2;  printf("Enter the value of a , b, c : ");  scanf("%lf %lf %lf", &a, &b, &c);  root1=(-b+ sqrt(b\*b-4\*a\*c))/(2\*a);  root2=(-b-sqrt(b\*b-4\*a\*c))/(2\*a);  if((b\*b-4\*a\*c)>0)  printf("REAL ROOT EXIST AND ROOT1 = %lf ROOT2 =%lf\n", root1,root2);  else if((b\*b-4\*a\*c)==0)  printf("REAL ROOT EXIST AND ROOT1 = ROOT2 =%lf\n", root1);  else if((b\*b-4\*a\*c)<0)  printf("REAL ROOT DOESN'T EXIST");  return 0;  } | 18.  #include<stdio.h>  int main()  {  double a,b,pro,loss;  printf("Enter cost and sell price : ");  scanf("%lf %lf",&a,&b);  if(b>a)  {  pro=b-a;  printf("PROFIT = %lf\n",pro);  }  else if(a>b)  {  loss=a-b;  printf("LOSS = %lf\n",loss);  }  else if(a==b)  printf("THERE IS NO LOSS AND NO PROFIT");  return 0;  } |

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| 19.  #include<stdio.h>  int main()  {  int p,c,b,m;  double perc;  printf("Enter the marks of all sub : ");  scanf("%d %d %d %d",&p,&c,&b,&m);  perc = (p+c+b+m)/4;  printf("Percentage = %lf\n",perc);  if(perc>=90)  printf("Grade A");  else if(perc>=80)  printf("Grade B");  else if(perc>=70)  printf("Grade C");  else if(perc>=60)  printf("Grade D");  else if(perc>=40)  printf("Grade E");  else if(perc<40)  printf("Grade F");  return 0;  } | 20.  #include <stdio.h>  int main()  {  double basic, gross, da, hra;  printf("Enter basic salary of an employee: ");  scanf("%lf", &basic);  if(basic <= 10000)  {  da = basic \* 0.8;  hra = basic \* 0.2;  }  else if(basic <= 20000)  {  da = basic \* 0.9;  hra = basic \* 0.25;  }  else  {  da = basic \* 0.95;  hra = basic \* 0.3;  }  gross = basic + hra + da;  printf("GROSS SALARY OF EMPLOYEE = %lf", gross);  return 0;  } |
| 21.  #include <stdio.h>  int main()  {  float unit;  double bill, total\_bill, surcharge;  printf("Enter total units : ");  scanf("%f", &unit);  if(unit <= 50)  {  bill = unit \* 0.50;  }  else if(unit <= 150 && unit>50)  {  bill = 25 + ((unit-50) \* 0.75);  }  else if(unit <= 250 && unit>150)  {  bill = 100 + ((unit-150) \* 1.20);  }  else  {  bill = 220 + ((unit-250) \* 1.50); } | surcharge = bill \* 0.20;  total\_bill = bill + surcharge;  printf("Electricity Bill = Rs. %.3lf", total\_bill);  return 0;  } |