**If-else assignment questions**

1.

#include<stdio.h>

#include<stdlib.h>

int main()

{

int n;

printf("Enter any integer:");

scanf("%d",&n);

if(n%5==0 &&n%11==0)

printf("The number is divisible by 5 and 11.");

else

printf("The number is not divisible by 5 and 11.");

return 0;

}

2.

#include<stdio.h>

#include<stdlib.h>

int main()

{

char alphabet;

printf("Enter any alphabet of your choice:");

scanf("%c",&alphabet);

if(alphabet>='a'&&alphabet<='z')

printf("It is a lowercase alphabet.");

else

printf("It is an uppercase alphabet.");

return 0;

}

3.

#include<stdio.h>

#include<stdlib.h>

int main()

{

int weeknum;

printf("Enter the week number:");

scanf("%d",&weeknum);

if(weeknum==1)

printf("Monday");

else if(weeknum==2)

printf("Tuesday");

else if(weeknum==3)

printf("Wednesday");

else if(weeknum==4)

printf("Thursday");

else if(weeknum==5)

printf("Friday");

else if(weeknum==6)

printf("Saturday");

else if(weeknum==7)

printf("Sunday");

else

printf("Invalid week number.");

return 0;

}

4.

#include<stdio.h>

#include<stdlib.h>

int main()

{

int monthnum,yearnum;

printf("Enter the year number:");

scanf("%d",&yearnum);

if(yearnum%400==0 ||yearnum%4==0&&yearnum%100!=0){

printf("Enter the month number:");

scanf("%d",&monthnum);

if(monthnum==1||monthnum==3||monthnum==5||monthnum==7||monthnum==8||monthnum==10||monthnum==12)

printf("Number of days=31");

else if(monthnum==4||monthnum==6||monthnum==9||monthnum==11)

printf("Number of days=30");

else if(monthnum==2)

printf("Number of days=29"); }

else

{printf("Enter the month number:");

scanf("%d",&monthnum);

if(monthnum==1||monthnum==3||monthnum==5||monthnum==7||monthnum==8||monthnum==10||monthnum==12)

printf("Number of days=31");

else if(monthnum==4||monthnum==6||monthnum==9||monthnum==11)

printf("Number of days=30");

else if(monthnum==2)

printf("Number of days=28");

}

return 0;}

5.

#include<stdio.h>

#include<stdio.h>

int main()

{

int amount,n100,n50,n10,rem;

printf("Enter the total amount:");

scanf("%d",&amount);

n100=amount/100;

amount=amount%100;

n50=amount/50;

amount=amount%50;

n10=amount/10;

rem=amount%10;

printf("Number of Rs.100 notes=%d",n100);

printf("\nNumber of Rs.50 notes=%d",n50);

printf("\nNumber of Rs.10 notes=%d",n10);

printf("\nThe remaining amount=%d",rem);

return 0;

}

6.

#include<stdio.h>

#include<stdlib.h>

int main()

{

int monthnum,yearnum;

printf("Enter the year number:");

scanf("%d",&yearnum);

if(yearnum%400==0 ||yearnum%4==0&&yearnum%100!=0){

printf("Enter the month number:");

scanf("%d",&monthnum);

if(monthnum==1||monthnum==3||monthnum==5||monthnum==7||monthnum==8||monthnum==10||monthnum==12)

printf("Number of days=31");

else if(monthnum==4||monthnum==6||monthnum==9||monthnum==11)

printf("Number of days=30");

else if(monthnum==2)

printf("Number of days=29"); }

else

{printf("Enter the month number:");

scanf("%d",&monthnum);

if(monthnum==1||monthnum==3||monthnum==5||monthnum==7||monthnum==8||monthnum==10||monthnum==12)

printf("Number of days=31");

else if(monthnum==4||monthnum==6||monthnum==9||monthnum==11)

printf("Number of days=30");

else if(monthnum==2)

printf("Number of days=28");

}

return 0;}

7.

#include<stdio.h>

#include<stdlib.h>

int main()

{ float a1,a2,a3;

printf("Enter the first angle=");

scanf("%f",&a1);

printf("Enter the second angle=");

scanf("%f",&a2);

printf("Enter the third angle=");

scanf("%f",&a3);

if (a1+a2+a3==180)

printf("These angles are of a triangle.");

else

printf("These angles are not of a triangle.");

return 0;

}

8.

#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)

{

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;

}

9.

#include<stdio.h>

#include<stdlib.h>

int main(){

float a,b,c;

printf("Enter the length of first side=");

scanf("%f",&a);

printf("Enter the length of second side=");

scanf("%f",&b);

printf("Enter the length of the third side:");

scanf("%f",&c);

if(a==b&&b==c&&c==a)

printf("The triangle is an equilateral.");

else if(a==b||b==c||c==a)

printf("The triangle is isoceles.");

else

printf("The triangle is scalene.");

return 0;

}

10.

#include<stdio.h>

int main()

{

int cp, sp;

printf("Enter the cost price of the product=");

scanf("%d", &cp);

printf("Enter the selling price of the product=");

scanf("%d", &sp);

if(sp > cp)

{

printf("Your profit is %d", (sp-cp));

}

else if(cp > sp)

{

printf("Loss Incurred is %d", (cp-sp));

}

else

{

printf("Neither profit, nor loss");

}

return 0;

}

11.

#include<stdio.h>

#include<stdlib.h>

int main(){

int physics,biology,chemistry,computer,mathematics,sum;

float percent;

printf("Enter the marks for Physics=");

scanf("%d",&physics);

printf("Enter the marks for Biology=");

scanf("%d",&biology);

printf("Enter the marks for Chemistry=");

scanf("%d",&chemistry);

printf("Enter the marks for Mathematics=");

scanf("%d",&mathematics);

printf("Enter the marks for Computer=");

scanf("%d",&computer);

sum=physics+biology+chemistry+computer+mathematics;

percent=sum/5;

if(percent>=90)

printf("Grade A");

else if(percent<90&&percent>=80)

printf("Grade B");

else if(percent<80&&percent>=70)

printf("Grade C");

else if(percent<70&&percent>=60)

printf("Grade D");

else if(percent<60&&percent>=40)

printf("Grade E");

else if(percent<40)

printf("Grade F");

getch();

return 0;

}

12.

#include<stdio.h>

#include<stdlib.h>

int main()

{

int bs;

float gs,da,hra;

printf("Enter the Basic Salary=");

scanf("%d",&bs);

if(bs<=10000)

{

da=bs\*0.8;

hra=bs\*0.2;

gs=da+hra+bs;

printf("Gross salary=%f",gs);}

else {if(bs>10000&&bs<=20000)

da=0.9\*bs;

hra=0.25\*bs;

gs=bs+hra+da;

printf("Gross salary=%d",gs);}

getch();

return 0;

}

13.

#include<stdio.h>

#include<stdlib.h>

int main()

{

int unit;

float total;

printf("Enter the units used:");

scanf("%d",&unit);

if(unit<=50){

total=unit\*0.5;

printf("Electricity bill(in Rs.)=%f",total);}

else if(unit>50&&unit<=150)

{total=(unit-50)\*0.75+50\*0.5;

printf("Electricity bill(in Rs.)=%f",total);}

else if(unit>150&&unit<=250)

{total=(unit-150)\*1.2+100\*0.75+50\*0.5;

printf("Electricity bill(in Rs.)=%f",total);}

else if(unit>250)

{total=(unit-250)\*1.5+100\*1.2+100\*0.75+50\*0.5;

printf("Electricity bill(in Rs.)=%f",total);}

getch();

return 0;

}