ASSIGMENT- 3

1 #include <stdio.h>

int main()

{

int x;

printf("enter a number ");

scanf("%d",&x);

if (x>0) printf("positive number ");

else printf("non positive number ");

return 0;

}

2 #include <stdio.h>

int main()

{

int x;

printf("enter a number ");

scanf("%d",&x);

if (x%5==0) printf( "%d is divisible by 5" );

else printf("not divisible by 5 ");

return 0;

}

3 #include <stdio.h>

int main()

{

int x;

printf("enter a number ");

scanf("%d",&x);

if (x%2==0) printf( " even number" );

else printf("odd number ");

return 0;

}

4 #include <stdio.h>

int main()

{

int x;

printf("enter a number ");

scanf("%d",&x);

if (x&1==1) printf( " odd number" );

else printf("even number ");

return 0;

}

5 #include <stdio.h>

int main()

{

int x;

printf("enter a number ");

scanf("%d",&x);

if (x>=100&x<=999) printf( " three digit number" );

else printf("not a three digit number");

return 0;

}

6 #include <stdio.h>

int main()

{

int x,y;

printf("enter two number ");

scanf("%d%d",&x,&y);

if (x>y)

printf( " %d",x );

else if(x<y)

printf("%d",y);

else

printf("%d and %d are equal",x,y);

return 0;

}

7 #include <stdio.h>

int main()

{

int a,b,c ,D;

printf("enter cofficient of x`2 ,x,constan ");

scanf("%d%d%d",&a,&b,&c);

D=b\*b-4\*a\*c;

if (D>0)

printf("real & distinct roots," );

else if(D<0)

printf(" or imaginary roots");

else

printf(" real and equal roots ");

return 0;

}

8 #include <stdio.h>

int main()

{

int x;

printf("enter a year ");

scanf("%d",&x);

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

printf("leap year");

else

printf("not a leap year");

return 0;

}

9 #include <stdio.h>

int main()

{

int a,b,c,x;

printf("enter three year ");

scanf("%d%d%d",&a,&b,&c);

x=a>b?a>c?a:c:b>c?b:c;

printf("%d",x);

return 0;

}

10 #include <stdio.h>

int main()

{

float a,b,profitpercent ;

printf("enter cost and selling price ");

scanf("%f%f",&a,&b);

if (a<b)

{

profitpercent = b-a;

profitpercent=profitpercent/a;

profitpercent=profitpercent\*100;

}

else

{

profitpercent = a-b;

profitpercent=profitpercent/a;

profitpercent=profitpercent\*100;

}

printf("%f",profitpercent);

return 0;

}

11 #include <stdio.h>

int main()

{

int a,b,c,d,e;

printf("enter marks of all 5 subjects ");

scanf("%a%b%c%d%e",&a,&b,&c,&d,&e);

if (a<=33||b<=33||c<=33||d<=33||e<=33)

printf("fail");

else

printf("pass");

return 0;

}

12 #include <stdio.h>

int main()

{

char ch;

printf("enter a alphabet ");

scanf("%c",&ch);

if (('a'<=ch) && (ch<='z'))

printf(" lowercase");

if (('A'<=ch) && (ch<='Z'))

printf(" upper case");

return 0;

}

13 #include <stdio.h>

int main()

{

int x;

printf("enter a number");

scanf("%d",&x);

if (x%2==0&&x%3==0)

printf("divisible by 2 and 3 ");

else

printf(" not divisible by 2 and 3");

return 0;

}

14 #include <stdio.h>

int main()

{

int x;

printf("enter a number");

scanf("%d",&x);

if (x%3==0)

printf("divisible by 3 ");

if(x%7==0)

printf(" divisible by 7 ");

return 0;

}

15 #include <stdio.h>

int main()

{

int x;

printf("enter a number");

scanf("%d",&x);

if (x>0)

printf("positive number");

else if(x==0)

printf(" zero ");

else

printf("negative number");

return 0;

}

16 #include <stdio.h>

int main()

{

char ch;

printf("enter a alphabet ");

scanf("%c",&ch);

if (('a'<=ch) && (ch<='z'))

printf(" lowercase");

if (('A'<=ch) && (ch<='Z'))

printf(" upper case");

return 0;

}

17 #include <stdio.h>

int main()

{

int a ,b, c;

printf("enter length of side of a trangle");

scanf("%d%d%d",&a,&b,&c);

if (a + b <= c || a + c <= b || b + c <= a)

printf(" valid trangle");

else

printf("not a valid trngle");

return 0;

}

18#include <stdio.h>

int main()

{

int N;

printf("enter number of month");

scanf("%d",&N);

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

printf(" 31 days");

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

printf("30 days");

else if (N==2)

printf("28 or 29 days");

else

printf("invalid number ");

return 0;

}