ASSINGMENT -8

1 Ans –

#include <stdio.h>

int main()

{

int a,b;

printf("Enter a Number");

scanf("%d",&a);

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

printf("Number is divisible by 3 and 2");

else

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

return 0;

}

2 Ans –

#include <stdio.h>

int main()

{

int a,b;

printf("Enter a Number");

scanf("%d",&a);

if(a%7==0 || a%3==0)

printf("Number is divisible by 7 or 3");

else

printf("Number is not divisible by 7 or 3");

return 0;

}

3 Ans –

#include <stdio.h>

int main()

{

int a;

printf("Enter a Number");

scanf("%d",&a);

if(a>0)

printf("Number is Positive");

else

if(a==0)

printf("Number is zero");

else

if(a<0)

printf("Number is Negative");

return 0;

}

4. Ans –

#include <stdio.h>

int main()

{

int year;

printf("Enter a year");

scanf("%d",&year);

if(year%100==0)

{

if(year%400==0)

printf("Leap Year");

else

printf("Not a Leap Year");

}

else

{

if(year%4==0)

printf("Leap Year");

else

printf("Not a Leap Year");

}

return 0;

}

5 Ans –

#include <stdio.h>

int main()

{

int a,b,c;

printf("Enter three Numbers");

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

if(a>b && a>c)

printf("a=%d is greater",a);

else if(b>a && b>c)

printf("b=%d is greater",b);

else

printf("c=%d is greater",c);

return 0;

}

6 Ans –

#include <stdio.h>

int main()

{

char c;

printf("Enter a character");

scanf("%c",&c);

if(c>='A' && 'Z'>=c)

printf("Character is UPPERCASE");

else if(c>='a' && 'z'>=c)

printf("Character is LOWERCASE");

else if(c>='0' && c<='9')

printf("it is not a CHARACTER");

else

printf("it is a SPECIAL CHARACTER");

return 0;

}

7 Ans –

#include <stdio.h>

int main()

{

int a,b,c;

printf("Enter three sides");

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

if(a+b>c && b+c>a && c+a>b)

printf("Triangle is valid");

else

printf("Triangle is invalid");

return 0;

}

8 Ans –

#include <stdio.h>

int main()

{

int a;

printf("Enter number of month(1-12):");

scanf("%d",&a);

{

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

printf("Number of days on this month is 31");

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

printf("Number of days on this month is 30");

else if(a==2)

printf("Number of days on this month is 28 or 29");

else

printf("Enter a valid month between 1-12");

}

return 0;

}

9 Ans –

#include <stdio.h>

int main()

{

double a,b,c;

printf("Enter the coefficient of quadretic equation");

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

if(b\*b-4\*a\*c>0)

printf("The nature of roots of a quadratic equation ia real");

else

printf("The nature of roots of a quadratic equation ia imaginary");

return 0;

}

10 Ans –

#include <stdio.h>

int main()

{

double p,c,b,m,co,add,per;

printf("Enter the marks of Physics Chemistry Bioligy Math and Computer");

scanf("%lf%lf%lf%lf%lf",&p,&c,&b,&m,&co);

add=p+c+b+m+co;

per=(add/500)\*100;

if(per>=90)

printf("Grade A");

else if(per>=80)

printf("Grade B");

else if(per>=70)

printf("Grade C");

else if(per>=60)

printf("Grade D");

else if(per>=40)

printf("Grade E");

else

printf("Grade F");

return 0;

}