**Vidyanand Kumar**

**C Language Assignment 7**

1).

#include<stdio.h>

#include<conio.h>

int main()

{

int x;

printf("Enter a number:");

scanf("%d",&x);

if(x>0)

printf("Positive");

if(x<=0)

printf("Non positive");

getch();

}

2).

#include<stdio.h>

#include<conio.h>

int main()

{

int x;

printf("Enter a number:");

scanf("%d",&x);

if(x%5)

printf("Not divisible by 5");

else

printf("Divisible by 5");

getch();

}

3).

#include<stdio.h>

#include<conio.h>

int main()

{

int x;

printf("Enter a number:");

scanf("%d",&x);

if(x%2)

printf("Odd");

else

printf("Even");

getch();

}

4).

#include <stdio.h>

#include<conio.h>

int main()

{

int x;

printf("Enter a number:");

scanf("%d",&x);

if((x&1)==0)

printf("Even number");

else

printf("Odd number");

getch();

}

5).

#include<stdio.h>

#include<conio.h>

int main()

{

int x;

printf("Enter a number:");

scanf("%d",&x);

if(x>99 && x<1000)

printf("Three digit number");

else

printf("Not a three digit number");

getch();

}

6).

#include<stdio.h>

#include<conio.h>

int main()

{

int x,y;

printf("Enter two numbers:");

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

if(x>y ||y>x)

if(x>y)

printf("%d",x);

else

printf("%d",y);

else

printf("%d",x);

getch();

}

7).

#include<stdio.h>

#include<conio.h>

int main()

{

float cp,sp,prof\_percent,loss\_percent;

printf("Enter cp and sp:");

scanf("%f %f",&cp,&sp);

prof\_percent=(sp-cp)/cp \*100;

loss\_percent=(cp-sp)/cp \*100;

if(sp>cp)

printf("profit percentage = %f\n = %f",prof\_percent);

else

printf("loss percentage = %f",loss\_percent);

getch();

}

8).

#include<stdio.h>

#include<conio.h>

int main()

{

int eng,maths,sci,ssc,snk,marks;

printf("Enter marks of English:");

scanf("%d",&eng);

printf("\nEnter marks of Mathematics:");

scanf("%d",&maths);

printf("\nEnter marks of Science:");

scanf("%d",&sci);

printf("\nEnter marks of Social Science:");

scanf("%d",&ssc);

printf("\nEnter marks of Sanskrit:");

scanf("%d",&snk);

if(eng>32 &&maths>32 &&sci>32 &&ssc>32 &&snk>32)

printf("Pass");

else

printf("Fail");

getch();

}

9).

#include<stdio.h>

#include<conio.h>

int main()

{

char m;

printf("Enter a character:");

scanf("%c",&m);

if(m>='A' && m<='Z')

printf("UPPERCASE");

else

{

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

printf("LOWERCSE");

else

printf("Not an alphabet");

}

getch();

}

10).

#include<stdio.h>

#include<conio.h>

int main()

{

int age,invst\_amt;

float x,y,z;

printf("Enter your age:");

scanf("%d",&age);

if(age>17 && age<56)

{

printf("Enter investment amount:");

scanf("%d",&invst\_amt);

if(invst\_amt>=10000 && invst\_amt<=100000)

{

if(age>=18 && age<=25)

{

printf("Policy period=30 years");

x=(invst\_amt\*5\*30)/100;

printf("\nMaturity amount=%f",x);

}

else if(age>=26 && age<=40)

{

printf("policy period=20 years");

y=(invst\_amt\*5\*20)/100;

printf("\nMaturity amount=%f",y);

}

else

{

printf("Policy period=10 years");

z=(invst\_amt\*5\*10)/100;

printf("\nMaturity amount=%f",z);

}

}

else

printf("Invalid amount");

}

else

printf("Not eligible");

getch();

}