Assignment-7

Date- 23.06.2022

1. //Check a number is positive or negative

```
#include <stdio.h>
# include <conio.h>
  int main()
{
  int x;
  Printf(" Enter a number = ");
  Scanf("%d", &x);
  if(x>0)
  Printf("%d is positive", x);
  if(
  else
  Printf("%d is non-positive", x);
}
```

2. // divisible by 5 or not

```
#include<stdio.h>
#include<conio.h>
int main()
{
    int x,r;
    Printf("Enter a number=");
    Scanf("%d",&x);
    r=x%5;
    if(r==0)
    Printf("%d is divisible by 5",x);
    else
    Printf("%d is not-divisible by 5",x);
    getch();
}
```

3. // Even or odd

```
#include<stdio.h>
#include<conio.h>
int main()
{
    int x,r;
    Printf("Enter a number=");
    Scanf("%d",&x);
    r=x%2;
    if(r==0)
    Printf("%d is even",x);
    else
    Printf("%d is odd",x);
    getch();
}
```

4. // Even or odd without % operator

```
#include<stdio.h>
#include<conio.h>
int main()
{
    int x;
    Printf("Enter the no=");
    Scanf("%d",&x);
    if(x&1)==0)
    Printf("%d is even",x);
    else
    Printf("%d is odd",x);
```

5. // Entered number is 3 digit or not

```
#include<stdio.h>
#include<conio.h>
int main()
{
    int x,k;
    Printf("Enter the number=");
    Scanf("%d",&x);
    k=x;
    while(k!=0)
    {
        count++;
        k=k/10;
    }
    if(count==3)
    Printf("%d is 3 digit number",x);
    else
    Printf("%d is not 3 digit",x);
```

6. // greater btw two number

```
#include<stdio.h>
#include<conio.h>
int main()
{
    int x,y
    Printf("Enter two number=");
    Scanf("%d%d",&x,&y);
    if(x>y)
    Printf("%d is greater",x);
    if(x<y)
    Printf("%d is greater",y);
    if(x==y
    Printf("both are Same");
    getch();
}
```

* Last binary digit of every even number is always 0.

7. // Profit or lose

```
#include<stdio.h>
int main();
{
int cost, Selling, Profit lose;
float Profit_Percentage, lose_Percentage
Printf(" Enter the cost and Selling price = ");
Scanf("%d %d", &cost, &Selling);
if (Selling > cost)
{
    Profit = Selling - cost;
    Profit_Percentage = (Profit/cost)*100; (Profit*100/cost);
    Printf(" Profit_Percentage = %f ", Profit_Percentage);
}
else
{
    lose = cost - Selling;
    lose_Perfentage = (lose/cost)*100; (lose*100/cost);
    Printf(" lose persentage = %f ", lose_Percentage);
}
getche();
}
```

10.

```
#include <stdio.h>
int main()
{
    int amount, age, r=5, t;
    Printf("Enter the amount and age = ");
    Scanf("%d %d", &amount, &age);
    if((amount>=10000 && amount<=100000) && (18<=age <=55 && age<=55))
    {
        if (18<= age <=25) && age<=25)
        {
            t=30;
            case1 = amount * r * t
            maturity amount = amount*r*t;
            Printf("Maturity amount = %d", maturity-amount);
        }
        if(25<= age <=40) && age<=40)
        {
            t= 20;
            maturity-amount = amount*r*t;
            Printf("maturity-amount = %d", maturity-amount");
        }
        if (40<=age <=55) && age<=55)
        {
            t=10;
            maturity-amount = amount*r*t;
            Printf("maturity-amount = %d", maturity-amount);
        }
    }
    else
    {Printf("your amount must be greater than 10000 and lesser than 100000
    Printf("your age must be from 18 to 55");
    }
}
```