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);
    getche();
}
```

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);
```

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

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");
    getche();
}
```

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*100/cost);
    Printf(" Profit_Percentage = %f ", Profit_Percentage);
}
else
{
    lose = cost - Selling;
    lose_Perfentage = (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");
}
}
```