

## Assignment - 7

- (1) write a program to check whether a given number is positive or non positive.

Ans #include <stdio.h>

int main()

{

    int a;

    printf ("Enter a Number :");  
    scanf ("%d", &a);

    if (a > 0)

        printf ("positive");

    else

        printf ("Non positive");

    return 0;

}

- (2) write a program to check whether a given number is divisible by 5 or not

#include <stdio.h>

int main()

{

    int a;

    printf ("Enter a Number :");

    scanf ("%d", &a);

    if (a % 5 == 0)

        printf ("Divisible");

    else

}

        printf ("Not divisible");

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(3) Write a program to check whether a given number is even or odd.

Ans #include <stdio.h>

```
int main()
{
    int a;
    printf("Enter a Number:");
    scanf("%d", &a);
    if (a % 2 == 0)
        printf("Even");
    else
        printf("Odd");
    return 0;
}
```

(4) Write a program to check whether a given number is a three even or odd without using the modulus operator.

Ans #include <stdio.h>

```
int main()
{
    int a;
    printf("Enter a Number:");
    scanf("%d", &a);
    if (a % 2 == 1)
        printf(" Odd Number");
    else
        printf(" Even Number");
    return 0;
}
```

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- (5) write a program to check whether a given number is a three digit number or not.

Ans

```
#include<stdio.h>
int main()
{
    int a;
    int count=0;
    printf("Enter a Number:");
    scanf("%d", &a);
    if (a!=0)
    {
        while (a!=0)
        {
            a=a/10;
            count++;
        }
        if (count==3)
            printf("Three digit Number");
        else
            printf("Not Three digit Number");
    }
    return 0;
}
```

(6) write a program to find greater between two numbers print one number if both numbers are same

Ans #include <stdio.h>  
int main()  
{  
 int a, b;  
 printf ("Enter two numbers");  
 scanf ("%d %d", &a, &b);  
 if (a == b)  
 {  
 printf ("Numbers are same");  
 }  
 else if (a > b)  
 {  
 printf ("Greater Number - %d", a);  
 }  
 else  
 {  
 printf ("Greater Number - %d", b);  
 }  
 return 0;  
}

Q. write a program which take the cost price and selling price of a product from the user. Now calculate and print profit or loss percentage.

Ans #include <stdio.h>

```
int main()
```

```
{
```

```
float cost, selling, loss, profit;
```

```
float percent;
```

```
printf("Enter cost and selling :");
```

```
scanf("%f %f", &cost, &selling);
```

```
profit = selling - cost;
```

```
loss = cost - selling;
```

```
percent = ((loss/cost) * 100.0);
```

```
percent = ((profit/cost) * 100.0);
```

```
if (profit > loss)
```

```
printf("Profit percentage %.f", percent);
```

```
else
```

```
printf("Loss percentage %.f", percent);
```

(8) write a program to take marks of 5 subjects from the user. Assume marks are given out of 100 and passing marks is 33. Now display whether the candidate passed the examination or failed.

Ans #include<stdio.h>

2 int main()

3 {

4 int m, p, h, e, ch;

5 printf("Enter 5 subject marks?");

6 scanf("%d%d%d%d%d", &m, &p, &h, &e, &ch);

7 if ((m >= 33 && m <= 100) && (p >= 33 && p <= 100) &&

8 (h >= 33 && h <= 100) && (e >= 33 && e <= 100) &&

9 (ch >= 33 && ch <= 100))

10 printf (" Examination pass");

11 else

12 printf (" Examination fail");

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(9) write a program to check whether a given alphabet is in uppercase or lowercase.

Ans #include <stdio.h>

int main()

{

char ch;

printf("Enter the alphabet.");

5  
abet

scanf(" %c ", &ch);

6  
abet

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

7  
abet

printf(" Upper alphabet");

8  
abet

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

9  
abet

printf(" Lower alphabet");

10  
abet

else

printf(" Invalid");

return (0);

2

(16) A policy agent has to inform about the amount a client will get after maturity of the scheme. If the client comes in the amount a client will get after maturity of the scheme if the client comes in the ~~amount~~ a client in age group 21 to 18 to 25 then the policy period is 30 years if the client comes in the age group 25 to 40 then the policy period is 20 years and if the client comes in the age group 40 to 55 then the policy period is 10 years. policy is not for other age groups. clients can invest any amount lesser than or equal to 100000 but must be greater than or equal to 10000. rate of return is 5%. using simple interest. write a program to take age and investment amount - print the maturity amount a client will get.

Ans #include <stdio.h>

```
int main()
{
    int age, amt;
    float si;
```

printf(" Enter your age:");

scanf("%d", &age);

printf(" Enter your amount:");

scanf("%d", &amt);

if ((amt >= 100000 & amt <= 1000000) &&  
(age >= 18 && age <= 55))

if (age <= 25)

t = 30;

else if (age >= 40)

t = 20;

else if (age <= 55)

t = 10;

Si = (amt \* t \* 5) / 100.0;

printf(" Your maturity amount is %.2f",  
Si + amt);

} else

printf(" You are not eligible for scheme").

return(0);

}