DAY 1

1. Write a C Program to check whether the user-entered integer is a positive number or a negative number.

```
 #include <stdio.h>
#include <stdlib.h>

int main()
{
    int a;
    printf("enter the number: \n");
    scanf("%d",&a);
    if(a>0)
    {
        printf("the number %d is positive",a);

    }
    else
    {
        printf("the given number %d is negative",a);

    }
    return 0;
}
```

2. Write a C Program to check whether the user-entered two numbers are equal or not.

```
#include <stdio.h>
int main() {
int a,b;
printf("enter two numbers:");
scanf("%d%d",&a,&b);
if(a==b)
printf("the numbers are equal");
else
printf("the numbers are not equal");
return 0;
}
```

3. Write a C Program to check whether the user-entered integer is a digit or a number.

4. Write a C Program to check whether the user-entered integer is a two-digit number or not.

```
#include <stdio.h>

int main()

{

int d;

printf("enter the integer:");
scanf("%d",&d);

if(d>=-99 && d<=99)
printf("%d is a two  digit",d);
else
printf("%d is not a two  digit",d);
```

```
return 0;

}
```
5. Write a C Program to check whether the user-entered number is a multiple of 3 and 5 or not.

```
#include <stdio.h>

int main() {

int n;

printf("Enter the number");

scanf("%d",&n);

if(n%3==0 && n%5==0)

printf("%d is a multiple of 3 and 5",n);

else

printf("%d is not a multiple of 3 and 5",n);

return 0;

}
```
6. Write a C Program to check whether the month number is a valid month number or an invalid month number.

```
#include <stdio.h>

int main() {
    int month;
    printf("Enter a month number: ");
    scanf("%d", &month);

    if (month >= 1 && month <= 12) {
        printf("%d is a valid month number.\n", month);
    } else {
        printf("%d is an invalid month number.\n", month);
    }

    return 0;
}
```
7. Write a C Program to check whether the number is an even number or an odd number.

```
#include <stdio.h>

int main() {
    int number;
    printf("Enter an integer: ");
    scanf("%d", &number);

    if (number % 2 == 0) {
        printf("%d is even.\n", number);
    } else {
        printf("%d is odd.\n", number);
    }
```

```
    return 0;
}
```
8. Write a C Program to check whether the user-entered number is a perfect square number or not.
```
#include <stdio.h>
#include <math.h>

int main() {
    int number;
    printf("Enter an integer: ");
    scanf("%d", &number);

    int sqrtValue = sqrt(number);
    if (sqrtValue * sqrtValue == number) {
        printf("%d is a perfect square.\n", number);
    } else {
        printf("%d is not a perfect square.\n", number);
    }

    return 0;
}
```
9. Write a C Program to check if a person is eligible to vote or not based on their age.
```
#include <stdio.h>

int main()

{

int d;

printf("enter the integer:");
scanf("%d",&d);

if(d>18)
printf("the person is eligible");
else
printf("the person is not eligible");

return 0;
}
```
10. Write a C Program to check if a character is a vowel or a consonant.
```
 #include <stdio.h>

int main()

{

char d;

printf("enter the aplhabet:");
scanf("%c",&d);

if(d=='a'|d=='e'|d=='i'|d=='o'|d=='u')
printf("the letter is vowel");
else
```

```
printf("the letter is a consonant");

return 0;

}
```