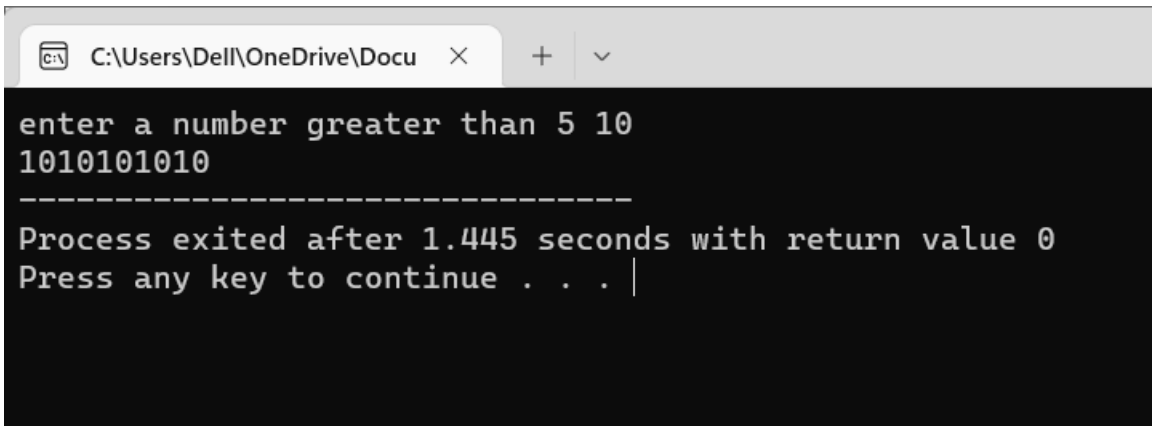
Task 1:

```
#include<iostream>
int main()
{
	int temp,num,r,count=1;
	std::cout<<"enter a number greater than 5 ";
	std::cin>>num;
	if(num<5)
	{
		std::cout<<"incorrect input!";
	}
	else if(num>=5)
	{

		if(num%5==0)
		{
			r=num/5;
			temp=num/2;

		}
		else if(num%5!=0)
		{
			r=num/5;
			temp=num/3;

		}
		while(count<=temp)
		{
			std::cout<<num;
			count++;
```

```
        }
    }

}
```



Task 2:

```
#include<iostream>
int main()
{
    int num,a,b,c,d,e,f,g,h,i,j,rev,r;
    std::cout<<"enter any number";
    std::cin>>num;
    if(num<10)
    {
        std::cout<<"count=1\n";
        std::cout<<num;
    }
    else if(num>=10 && num<=99)
    {

    a=(num/10);
```

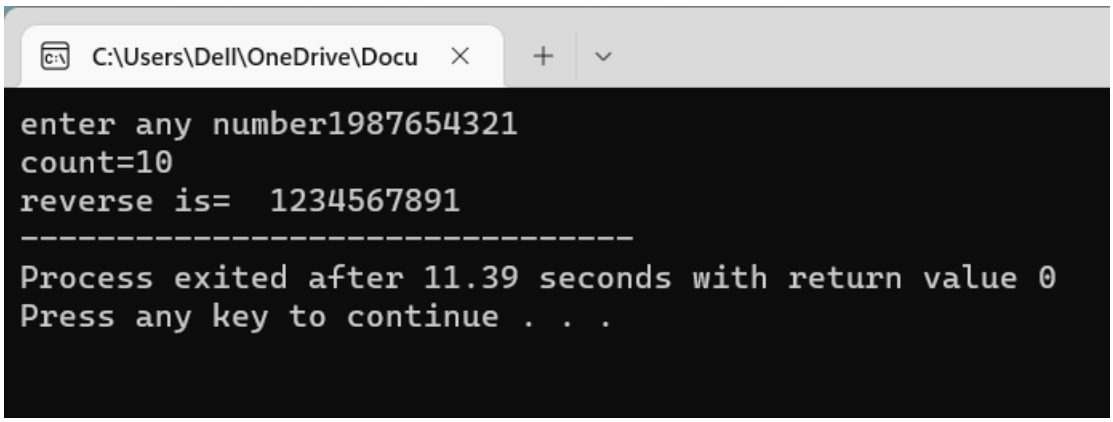
```
b=num%10;
rev=(b*10)+(a*1);
std::cout<<"count=2\n";
std::cout<<"reverse is=  "<<rev;
}
else if(num>=100 && num<=999)
{
a=(num/100);
b=(num%100)/10;
c=(num%10);
rev=(c*100)+(b*10)+(a*1);
std::cout<<"count=3\n";
std::cout<<"reverse is=  "<<rev;
}
else if(num>=1000&&num<=9999)
{
a=(num/1000);
b=(num%1000)/100;
c=(num%100)/10;
d=(num%10)/1;
rev=(d*1000)+(c*100)+(b*10)+(a*1);
std::cout<<"count=4\n";
std::cout<<"reverse is=  "<<rev;
}
else if(num>=10000&&num<=99999)
{
a=(num/10000);
b=(num%10000)/1000;
c=(num%1000)/100;
d=(num%100)/10;
r=(num%10);
```

```
rev=(r*10000)+(d*1000)+(c*100)+(b*10)+(a*1);
std::cout<<"count=5\n";
std::cout<<"reverse is=  "<<rev;
}
else if(num>=100000&&num<=999999)
{
a=(num/100000);
b=(num%100000)/10000;
c=(num%10000)/1000;
d=(num%1000)/100;
r=(num%100)/10;
e=num%10;
rev=(e*100000)+(r*10000)+(d*1000)+(c*100)+(b*10)+(a*1);
std::cout<<"count=6\n";
std::cout<<"reverse is=  "<<rev;
}
else if(num>=1000000&&num<=9999999)
{
a=(num/1000000);
b=(num%1000000)/100000;
c=(num%100000)/10000;
d=(num%10000)/1000;
r=(num%1000)/100;
e=(num%100)/10;
f=num%10;
rev=(f*1000000)+(e*100000)+(r*10000)+(d*1000)+(c*100)+(b*10)+(a*1);
std::cout<<"count=7\n";
std::cout<<"reverse is=  "<<rev;
}
else if(num>=10000000&&num<=99999999)
{
```

```
a=(num/10000000);
b=(num%10000000)/1000000;
c=(num%1000000)/100000;
d=(num%100000)/10000;
r=(num%10000)/1000;
e=(num%1000)/100;
f=(num%100)/10;
g=num%10;
rev=(g*10000000)+(f*1000000)+(e*100000)+(r*10000)+(d*1000)+(c*100)+(b*10)+(a*1);
std::cout<<"count=8\n";
std::cout<<"reverse is=  "<<rev;
}
else if(num>=100000000&&num<=999999999)
{
a=(num/100000000);
b=(num%100000000)/10000000;
c=(num%10000000)/1000000;
d=(num%1000000)/100000;
r=(num%100000)/10000;
e=(num%10000)/1000;
f=(num%1000)/100;
g=(num%100)/10;
h=num%10;

rev=(h*100000000)+(g*10000000)+(f*1000000)+(e*100000)+(r*10000)+(d*1000)+(c*100)+(b*10)+(
a*1);
std::cout<<"count=9\n";
std::cout<<"reverse is=  "<<rev;
}

else if(num>=1000000000&&num<=9999999999)
{
```

```
        a=(num/1000000000);
        b=(num%1000000000)/100000000;
        c=(num%100000000)/10000000;
        d=(num%10000000)/1000000;
        r=(num%1000000)/100000;
        e=(num%100000)/10000;
        f=(num%10000)/1000;
        g=(num%1000)/100;
        h=(num%100)/10;
        i=num%10;

rev=(i*1000000000)+(h*100000000)+(g*10000000)+(f*1000000)+(e*100000)+(r*10000)+(d*1000)+
(c*100)+(b*10)+(a*1);
        std::cout<<"count=10\n";
        std::cout<<"reverse is=  "<<rev;
        }
        else if(num>=10000000000&&num<=99999999999)
        {
        a=(num/10000000000);
        b=(num%10000000000)/1000000000;
        c=(num%1000000000)/100000000;
        d=(num%100000000)/10000000;
        r=(num%10000000)/1000000;
        e=(num%1000000)/100000;
        f=(num%100000)/10000;
        g=(num%10000)/1000;
        h=(num%1000)/100;
        i=(num%100)/10;
        j=num%10;

rev=(j*10000000000)+(i*1000000000)+(h*100000000)+(g*10000000)+(f*1000000)+(e*100000)+(r*
10000)+(d*1000)+(c*100)+(b*10)+(a*1);
```

```
        std::cout<<"count=11\n";
        std::cout<<"reverse is=  "<<rev;
        }
        else
        {
                std::cout<<"number is out of range";
        }



}
```



Task 3:

```
#include<iostream>
using namespace std;
int main()
{
        int num,a,b,c,d,e,f,g,h,i,j,k;
        std::cout<<"enter any number";
        std::cin>>num;
        if(num<10)
        {
                        switch(num)
                {
```

```
case 0:
std::cout<<"zero";
break;
case 1:
std::cout<<"one";
break;
case 2:
std::cout<<"two";
break;
case 3:
std::cout<<"three";
break;
case 4:
std::cout<<"four";
break;
case 5:
std::cout<<"five";
break;
case 6:
std::cout<<"six";
break;
case 7:
std::cout<<"seven";
break;
case 8:
std::cout<<"eight";
break;
case 9:
std::cout<<"nine";
break;
}
```

```
}
else if(num>=10 && num<=99)
{
	a=num%10;
	b=num/10;
	switch(b)
	{
		case 0:
		std::cout<<"zero";
		break;
		case 1:
		std::cout<<"one";
		break;
		case 2:
		std::cout<<"two";
		break;
		case 3:
		std::cout<<"three";
		break;
		case 4:
		std::cout<<"four";
		break;
		case 5:
		std::cout<<"five";
		break;
		case 6:
		std::cout<<"six";
		break;
		case 7:
		std::cout<<"seven";
```

```
break;
case 8:
std::cout<<"eight";
break;
case 9:
std::cout<<"nine";
break;
}
switch(a)
{
        case 0:
std::cout<<"zero";
break;
case 1:
std::cout<<"one";
break;
case 2:
std::cout<<"two";
break;
case 3:
std::cout<<"three";
break;
case 4:
std::cout<<"four";
break;
case 5:
std::cout<<"five";
break;
case 6:
std::cout<<"six";
break;
```

```
                case 7:
                std::cout<<"seven";
                break;
                case 8:
                std::cout<<"eight";
                break;
                case 9:
                std::cout<<"nine";
                break;

                }

}
else if(num>=100 && num<=999)
{
        b=num%100;
        a=num/100;
        c=b%10;
        b=b/10;
        switch(a)
        {
                case 0:
                std::cout<<"zero";
                break;
                case 1:
                std::cout<<"one";
                break;
                case 2:
                std::cout<<"two";
                break;
                case 3:
```

```
        std::cout<<"three";
        break;
        case 4:
        std::cout<<"four";
        break;
        case 5:
        std::cout<<"five";
        break;
        case 6:
        std::cout<<"six";
        break;
        case 7:
        std::cout<<"seven";
        break;
        case 8:
        std::cout<<"eight";
        break;
        case 9:
        std::cout<<"nine";
        break;
}
switch(b)
{
        case 0:
        std::cout<<"zero";
        break;
        case 1:
        std::cout<<"one";
        break;
        case 2:
        std::cout<<"two";
```

```
        break;
        case 3:
        std::cout<<"three";
        break;
        case 4:
        std::cout<<"four";
        break;
        case 5:
        std::cout<<"five";
        break;
        case 6:
        std::cout<<"six";
        break;
        case 7:
        std::cout<<"seven";
        break;
        case 8:
        std::cout<<"eight";
        break;
        case 9:
        std::cout<<"nine";
        break;
        }
switch(c)
{
        case 0:
        std::cout<<"zero";
        break;
        case 1:
        std::cout<<"one";
        break;
```

```
                    case 2:
                    std::cout<<"two";
                    break;
                    case 3:
                    std::cout<<"three";
                    break;
                    case 4:
                    std::cout<<"four";
                    break;
                    case 5:
                    std::cout<<"five";
                    break;
                    case 6:
                    std::cout<<"six";
                    break;
                    case 7:
                    std::cout<<"seven";
                    break;
                    case 8:
                    std::cout<<"eight";
                    break;
                    case 9:
                    std::cout<<"nine";
                    break;
                    }

}
else if(num>=1000 && num<=9999)
{
   b=num%1000;
          a=num/1000;
```

```
        c=b%100;
        b=b/100;
        d=c%10;
        c=c/10;
switch(a)
        {
                case 0:
                std::cout<<"zero";
                break;
                case 1:
                std::cout<<"one";
                break;
                case 2:
                std::cout<<"two";
                break;
                case 3:
                std::cout<<"three";
                break;
                case 4:
                std::cout<<"four";
                break;
                case 5:
                std::cout<<"five";
                break;
                case 6:
                std::cout<<"six";
                break;
                case 7:
                std::cout<<"seven";
                break;
                case 8:
```

```
            std::cout<<"eight";
            break;
            case 9:
            std::cout<<"nine";
            break;
}
switch(b)
{
            case 0:
            std::cout<<"zero";
            break;
            case 1:
            std::cout<<"one";
            break;
            case 2:
            std::cout<<"two";
            break;
            case 3:
            std::cout<<"three";
            break;
            case 4:
            std::cout<<"four";
            break;
            case 5:
            std::cout<<"five";
            break;
            case 6:
            std::cout<<"six";
            break;
            case 7:
            std::cout<<"seven";
```

```
        break;
        case 8:
        std::cout<<"eight";
        break;
        case 9:
        std::cout<<"nine";
        break;
        }
switch(c)
{
        case 0:
        std::cout<<"zero";
        break;
        case 1:
        std::cout<<"one";
        break;
        case 2:
        std::cout<<"two";
        break;
        case 3:
        std::cout<<"three";
        break;
        case 4:
        std::cout<<"four";
        break;
        case 5:
        std::cout<<"five";
        break;
        case 6:
        std::cout<<"six";
        break;
```

```
                case 7:
                std::cout<<"seven";
                break;
                case 8:
                std::cout<<"eight";
                break;
                case 9:
                std::cout<<"nine";
                break;
                }
switch(d)
        {
                case 0:
                std::cout<<"zero";
                break;
                case 1:
                std::cout<<"one";
                break;
                case 2:
                std::cout<<"two";
                break;
                case 3:
                std::cout<<"three";
                break;
                case 4:
                std::cout<<"four";
                break;
                case 5:
                std::cout<<"five";
                break;
                case 6:
```

```
                    std::cout<<"six";
                    break;
                    case 7:
                    std::cout<<"seven";
                    break;
                    case 8:
                    std::cout<<"eight";
                    break;
                    case 9:
                    std::cout<<"nine";
                    break;
                    }
}
else if(num>=10000 && num<=99999)
{
          b=num%10000;
          a=num/10000;
          c=b%1000;
          b=b/1000;
          d=c%100;
          c=c/100;
          e=d%10;
          d=d/10;
switch(a)
          {
                    case 0:
                    std::cout<<"zero";
                    break;
                    case 1:
                    std::cout<<"one";
                    break;
```

```
        case 2:
        std::cout<<"two";
        break;
        case 3:
        std::cout<<"three";
        break;
        case 4:
        std::cout<<"four";
        break;
        case 5:
        std::cout<<"five";
        break;
        case 6:
        std::cout<<"six";
        break;
        case 7:
        std::cout<<"seven";
        break;
        case 8:
        std::cout<<"eight";
        break;
        case 9:
        std::cout<<"nine";
        break;
}
switch(b)
{
        case 0:
        std::cout<<"zero";
        break;
        case 1:
```

```
        std::cout<<"one";
        break;
        case 2:
        std::cout<<"two";
        break;
        case 3:
        std::cout<<"three";
        break;
        case 4:
        std::cout<<"four";
        break;
        case 5:
        std::cout<<"five";
        break;
        case 6:
        std::cout<<"six";
        break;
        case 7:
        std::cout<<"seven";
        break;
        case 8:
        std::cout<<"eight";
        break;
        case 9:
        std::cout<<"nine";
        break;
        }
switch(c)
{
        case 0:
        std::cout<<"zero";
```

```
                    break;
                    case 1:
                    std::cout<<"one";
                    break;
                    case 2:
                    std::cout<<"two";
                    break;
                    case 3:
                    std::cout<<"three";
                    break;
                    case 4:
                    std::cout<<"four";
                    break;
                    case 5:
                    std::cout<<"five";
                    break;
                    case 6:
                    std::cout<<"six";
                    break;
                    case 7:
                    std::cout<<"seven";
                    break;
                    case 8:
                    std::cout<<"eight";
                    break;
                    case 9:
                    std::cout<<"nine";
                    break;
                    }
switch(d)
          {
```

```
case 0:
std::cout<<"zero";
break;
case 1:
std::cout<<"one";
break;
case 2:
std::cout<<"two";
break;
case 3:
std::cout<<"three";
break;
case 4:
std::cout<<"four";
break;
case 5:
std::cout<<"five";
break;
case 6:
std::cout<<"six";
break;
case 7:
std::cout<<"seven";
break;
case 8:
std::cout<<"eight";
break;
case 9:
std::cout<<"nine";
break;
}
```

```
switch(e)
{
        case 0:
        std::cout<<"zero";
        break;
        case 1:
        std::cout<<"one";
        break;
        case 2:
        std::cout<<"two";
        break;
        case 3:
        std::cout<<"three";
        break;
        case 4:
        std::cout<<"four";
        break;
        case 5:
        std::cout<<"five";
        break;
        case 6:
        std::cout<<"six";
        break;
        case 7:
        std::cout<<"seven";
        break;
        case 8:
        std::cout<<"eight";
        break;
        case 9:
        std::cout<<"nine";
```

```
                break;
        }

}
        else if(num>=100000 && num<=999999)
{
  b=num%100000;
        a=num/100000;
        c=b%10000;
        b=b/10000;
        d=c%1000;
        c=c/1000;
        e=d%100;
        d=d/100;
        f=e%10;
        e=e/10;
switch(a)
        {
                case 0:
                std::cout<<"zero";
                break;
                case 1:
                std::cout<<"one";
                break;
                case 2:
                std::cout<<"two";
                break;
                case 3:
                std::cout<<"three";
                break;
                case 4:
```

```
            std::cout<<"four";
            break;
            case 5:
            std::cout<<"five";
            break;
            case 6:
            std::cout<<"six";
            break;
            case 7:
            std::cout<<"seven";
            break;
            case 8:
            std::cout<<"eight";
            break;
            case 9:
            std::cout<<"nine";
            break;
}
switch(b)
{
            case 0:
            std::cout<<"zero";
            break;
            case 1:
            std::cout<<"one";
            break;
            case 2:
            std::cout<<"two";
            break;
            case 3:
            std::cout<<"three";
```

```
        break;
        case 4:
        std::cout<<"four";
        break;
        case 5:
        std::cout<<"five";
        break;
        case 6:
        std::cout<<"six";
        break;
        case 7:
        std::cout<<"seven";
        break;
        case 8:
        std::cout<<"eight";
        break;
        case 9:
        std::cout<<"nine";
        break;
        }
switch(c)
{
        case 0:
        std::cout<<"zero";
        break;
        case 1:
        std::cout<<"one";
        break;
        case 2:
        std::cout<<"two";
        break;
```

```
                case 3:
                std::cout<<"three";
                break;
                case 4:
                std::cout<<"four";
                break;
                case 5:
                std::cout<<"five";
                break;
                case 6:
                std::cout<<"six";
                break;
                case 7:
                std::cout<<"seven";
                break;
                case 8:
                std::cout<<"eight";
                break;
                case 9:
                std::cout<<"nine";
                break;
                }
switch(d)
        {
                case 0:
                std::cout<<"zero";
                break;
                case 1:
                std::cout<<"one";
                break;
                case 2:
```

```
        std::cout<<"two";
        break;
        case 3:
        std::cout<<"three";
        break;
        case 4:
        std::cout<<"four";
        break;
        case 5:
        std::cout<<"five";
        break;
        case 6:
        std::cout<<"six";
        break;
        case 7:
        std::cout<<"seven";
        break;
        case 8:
        std::cout<<"eight";
        break;
        case 9:
        std::cout<<"nine";
        break;
        }
switch(e)
{
        case 0:
        std::cout<<"zero";
        break;
        case 1:
        std::cout<<"one";
```

```
        break;
        case 2:
        std::cout<<"two";
        break;
        case 3:
        std::cout<<"three";
        break;
        case 4:
        std::cout<<"four";
        break;
        case 5:
        std::cout<<"five";
        break;
        case 6:
        std::cout<<"six";
        break;
        case 7:
        std::cout<<"seven";
        break;
        case 8:
        std::cout<<"eight";
        break;
        case 9:
        std::cout<<"nine";
        break;
}
switch(f)
{
        case 0:
        std::cout<<"zero";
        break;
```

```
                    case 1:
                    std::cout<<"one";
                    break;
                    case 2:
                    std::cout<<"two";
                    break;
                    case 3:
                    std::cout<<"three";
                    break;
                    case 4:
                    std::cout<<"four";
                    break;
                    case 5:
                    std::cout<<"five";
                    break;
                    case 6:
                    std::cout<<"six";
                    break;
                    case 7:
                    std::cout<<"seven";
                    break;
                    case 8:
                    std::cout<<"eight";
                    break;
                    case 9:
                    std::cout<<"nine";
                    break;
            }
}
else if(num>=1000000 && num<=9999999)
{
```

```
        b=num%1000000;
        a=num/1000000;
        c=b%100000;
        b=b/100000;
        d=c%10000;
        c=c/10000;
        e=d%1000;
        d=d/1000;
        f=e%100;
        e=e/100;
        g=f%10;
        f=f/10;
switch(a)
        {
                case 0:
                std::cout<<"zero";
                break;
                case 1:
                std::cout<<"one";
                break;
                case 2:
                std::cout<<"two";
                break;
                case 3:
                std::cout<<"three";
                break;
                case 4:
                std::cout<<"four";
                break;
                case 5:
                std::cout<<"five";
```

```
        break;
        case 6:
        std::cout<<"six";
        break;
        case 7:
        std::cout<<"seven";
        break;
        case 8:
        std::cout<<"eight";
        break;
        case 9:
        std::cout<<"nine";
        break;
}
switch(b)
{
        case 0:
        std::cout<<"zero";
        break;
        case 1:
        std::cout<<"one";
        break;
        case 2:
        std::cout<<"two";
        break;
        case 3:
        std::cout<<"three";
        break;
        case 4:
        std::cout<<"four";
        break;
```

```
        case 5:
        std::cout<<"five";
        break;
        case 6:
        std::cout<<"six";
        break;
        case 7:
        std::cout<<"seven";
        break;
        case 8:
        std::cout<<"eight";
        break;
        case 9:
        std::cout<<"nine";
        break;
        }
switch(c)
{
        case 0:
        std::cout<<"zero";
        break;
        case 1:
        std::cout<<"one";
        break;
        case 2:
        std::cout<<"two";
        break;
        case 3:
        std::cout<<"three";
        break;
        case 4:
```

```
                std::cout<<"four";
                break;
                case 5:
                std::cout<<"five";
                break;
                case 6:
                std::cout<<"six";
                break;
                case 7:
                std::cout<<"seven";
                break;
                case 8:
                std::cout<<"eight";
                break;
                case 9:
                std::cout<<"nine";
                break;
                }
switch(d)
        {
                case 0:
                std::cout<<"zero";
                break;
                case 1:
                std::cout<<"one";
                break;
                case 2:
                std::cout<<"two";
                break;
                case 3:
                std::cout<<"three";
```

```
        break;
        case 4:
        std::cout<<"four";
        break;
        case 5:
        std::cout<<"five";
        break;
        case 6:
        std::cout<<"six";
        break;
        case 7:
        std::cout<<"seven";
        break;
        case 8:
        std::cout<<"eight";
        break;
        case 9:
        std::cout<<"nine";
        break;
        }
switch(e)
{
        case 0:
        std::cout<<"zero";
        break;
        case 1:
        std::cout<<"one";
        break;
        case 2:
        std::cout<<"two";
        break;
```

```
        case 3:
        std::cout<<"three";
        break;
        case 4:
        std::cout<<"four";
        break;
        case 5:
        std::cout<<"five";
        break;
        case 6:
        std::cout<<"six";
        break;
        case 7:
        std::cout<<"seven";
        break;
        case 8:
        std::cout<<"eight";
        break;
        case 9:
        std::cout<<"nine";
        break;
}
switch(f)
{
        case 0:
        std::cout<<"zero";
        break;
        case 1:
        std::cout<<"one";
        break;
        case 2:
```

```
std::cout<<"two";
break;
case 3:
std::cout<<"three";
break;
case 4:
std::cout<<"four";
break;
case 5:
std::cout<<"five";
break;
case 6:
std::cout<<"six";
break;
case 7:
std::cout<<"seven";
break;
case 8:
std::cout<<"eight";
break;
case 9:
std::cout<<"nine";
break;
}
switch(g)
{
case 0:
std::cout<<"zero";
break;
case 1:
std::cout<<"one";
```

```
                break;
                case 2:
                std::cout<<"two";
                break;
                case 3:
                std::cout<<"three";
                break;
                case 4:
                std::cout<<"four";
                break;
                case 5:
                std::cout<<"five";
                break;
                case 6:
                std::cout<<"six";
                break;
                case 7:
                std::cout<<"seven";
                break;
                case 8:
                std::cout<<"eight";
                break;
                case 9:
                std::cout<<"nine";
                break;
        }

}
        else if(num>=10000000 && num<=99999999)
{
        b=num%10000000;
```

```
        a=num/10000000;
        c=b%1000000;
        b=b/1000000;
        d=c%100000;
        c=c/100000;
        e=d%10000;
        d=d/10000;
        f=e%1000;
        e=e/1000;
        g=f%100;
        f=f/100;
        h=g%10;
        g=g/10;
switch(a)
        {
                case 0:
                std::cout<<"zero";
                break;
                case 1:
                std::cout<<"one";
                break;
                case 2:
                std::cout<<"two";
                break;
                case 3:
                std::cout<<"three";
                break;
                case 4:
                std::cout<<"four";
                break;
                case 5:
```

```
        std::cout<<"five";
        break;
        case 6:
        std::cout<<"six";
        break;
        case 7:
        std::cout<<"seven";
        break;
        case 8:
        std::cout<<"eight";
        break;
        case 9:
        std::cout<<"nine";
        break;
}
switch(b)
{
        case 0:
        std::cout<<"zero";
        break;
        case 1:
        std::cout<<"one";
        break;
        case 2:
        std::cout<<"two";
        break;
        case 3:
        std::cout<<"three";
        break;
        case 4:
        std::cout<<"four";
```

```
        break;
        case 5:
        std::cout<<"five";
        break;
        case 6:
        std::cout<<"six";
        break;
        case 7:
        std::cout<<"seven";
        break;
        case 8:
        std::cout<<"eight";
        break;
        case 9:
        std::cout<<"nine";
        break;
        }
switch(c)
{
        case 0:
        std::cout<<"zero";
        break;
        case 1:
        std::cout<<"one";
        break;
        case 2:
        std::cout<<"two";
        break;
        case 3:
        std::cout<<"three";
        break;
```

```
                case 4:
                std::cout<<"four";
                break;
                case 5:
                std::cout<<"five";
                break;
                case 6:
                std::cout<<"six";
                break;
                case 7:
                std::cout<<"seven";
                break;
                case 8:
                std::cout<<"eight";
                break;
                case 9:
                std::cout<<"nine";
                break;
                }
switch(d)
        {
                case 0:
                std::cout<<"zero";
                break;
                case 1:
                std::cout<<"one";
                break;
                case 2:
                std::cout<<"two";
                break;
                case 3:
```

```
        std::cout<<"three";
        break;
        case 4:
        std::cout<<"four";
        break;
        case 5:
        std::cout<<"five";
        break;
        case 6:
        std::cout<<"six";
        break;
        case 7:
        std::cout<<"seven";
        break;
        case 8:
        std::cout<<"eight";
        break;
        case 9:
        std::cout<<"nine";
        break;
        }
switch(e)
{
        case 0:
        std::cout<<"zero";
        break;
        case 1:
        std::cout<<"one";
        break;
        case 2:
        std::cout<<"two";
```

```
        break;
        case 3:
        std::cout<<"three";
        break;
        case 4:
        std::cout<<"four";
        break;
        case 5:
        std::cout<<"five";
        break;
        case 6:
        std::cout<<"six";
        break;
        case 7:
        std::cout<<"seven";
        break;
        case 8:
        std::cout<<"eight";
        break;
        case 9:
        std::cout<<"nine";
        break;
}
switch(f)
{
        case 0:
        std::cout<<"zero";
        break;
        case 1:
        std::cout<<"one";
        break;
```

```
        case 2:
        std::cout<<"two";
        break;
        case 3:
        std::cout<<"three";
        break;
        case 4:
        std::cout<<"four";
        break;
        case 5:
        std::cout<<"five";
        break;
        case 6:
        std::cout<<"six";
        break;
        case 7:
        std::cout<<"seven";
        break;
        case 8:
        std::cout<<"eight";
        break;
        case 9:
        std::cout<<"nine";
        break;
        }
        switch(g)
{
        case 0:
        std::cout<<"zero";
        break;
        case 1:
```

```
        std::cout<<"one";
        break;
        case 2:
        std::cout<<"two";
        break;
        case 3:
        std::cout<<"three";
        break;
        case 4:
        std::cout<<"four";
        break;
        case 5:
        std::cout<<"five";
        break;
        case 6:
        std::cout<<"six";
        break;
        case 7:
        std::cout<<"seven";
        break;
        case 8:
        std::cout<<"eight";
        break;
        case 9:
        std::cout<<"nine";
        break;
}
        switch(h)
{
        case 0:
        std::cout<<"zero";
```

```
                    break;
                    case 1:
                    std::cout<<"one";
                    break;
                    case 2:
                    std::cout<<"two";
                    break;
                    case 3:
                    std::cout<<"three";
                    break;
                    case 4:
                    std::cout<<"four";
                    break;
                    case 5:
                    std::cout<<"five";
                    break;
                    case 6:
                    std::cout<<"six";
                    break;
                    case 7:
                    std::cout<<"seven";
                    break;
                    case 8:
                    std::cout<<"eight";
                    break;
                    case 9:
                    std::cout<<"nine";
                    break;
            }
}
            else if(num>=100000000 && num<=999999999)
```

```
{
        b=num%100000000;
        a=num/100000000;
        c=b%10000000;
        b=b/10000000;
        d=c%1000000;
        c=c/1000000;
        e=d%100000;
        d=d/100000;
        f=e%10000;
        e=e/10000;
        g=f%1000;
        f=f/1000;
        h=g%100;
        g=g/100;
        i=h%10;
        h=h/10;
switch(a)
        {
                case 0:
                std::cout<<"zero";
                break;
                case 1:
                std::cout<<"one";
                break;
                case 2:
                std::cout<<"two";
                break;
                case 3:
                std::cout<<"three";
                break;
```

```
        case 4:
        std::cout<<"four";
        break;
        case 5:
        std::cout<<"five";
        break;
        case 6:
        std::cout<<"six";
        break;
        case 7:
        std::cout<<"seven";
        break;
        case 8:
        std::cout<<"eight";
        break;
        case 9:
        std::cout<<"nine";
        break;
}
switch(b)
{
        case 0:
        std::cout<<"zero";
        break;
        case 1:
        std::cout<<"one";
        break;
        case 2:
        std::cout<<"two";
        break;
        case 3:
```

```
        std::cout<<"three";
        break;
        case 4:
        std::cout<<"four";
        break;
        case 5:
        std::cout<<"five";
        break;
        case 6:
        std::cout<<"six";
        break;
        case 7:
        std::cout<<"seven";
        break;
        case 8:
        std::cout<<"eight";
        break;
        case 9:
        std::cout<<"nine";
        break;
        }
switch(c)
{
        case 0:
        std::cout<<"zero";
        break;
        case 1:
        std::cout<<"one";
        break;
        case 2:
        std::cout<<"two";
```

```
                    break;
                    case 3:
                    std::cout<<"three";
                    break;
                    case 4:
                    std::cout<<"four";
                    break;
                    case 5:
                    std::cout<<"five";
                    break;
                    case 6:
                    std::cout<<"six";
                    break;
                    case 7:
                    std::cout<<"seven";
                    break;
                    case 8:
                    std::cout<<"eight";
                    break;
                    case 9:
                    std::cout<<"nine";
                    break;
                    }
switch(d)
          {
                    case 0:
                    std::cout<<"zero";
                    break;
                    case 1:
                    std::cout<<"one";
                    break;
```

```
        case 2:
        std::cout<<"two";
        break;
        case 3:
        std::cout<<"three";
        break;
        case 4:
        std::cout<<"four";
        break;
        case 5:
        std::cout<<"five";
        break;
        case 6:
        std::cout<<"six";
        break;
        case 7:
        std::cout<<"seven";
        break;
        case 8:
        std::cout<<"eight";
        break;
        case 9:
        std::cout<<"nine";
        break;
        }
switch(e)
{
        case 0:
        std::cout<<"zero";
        break;
        case 1:
```

```
        std::cout<<"one";
        break;
        case 2:
        std::cout<<"two";
        break;
        case 3:
        std::cout<<"three";
        break;
        case 4:
        std::cout<<"four";
        break;
        case 5:
        std::cout<<"five";
        break;
        case 6:
        std::cout<<"six";
        break;
        case 7:
        std::cout<<"seven";
        break;
        case 8:
        std::cout<<"eight";
        break;
        case 9:
        std::cout<<"nine";
        break;
}
switch(f)
{
        case 0:
        std::cout<<"zero";
```

```
        break;
        case 1:
        std::cout<<"one";
        break;
        case 2:
        std::cout<<"two";
        break;
        case 3:
        std::cout<<"three";
        break;
        case 4:
        std::cout<<"four";
        break;
        case 5:
        std::cout<<"five";
        break;
        case 6:
        std::cout<<"six";
        break;
        case 7:
        std::cout<<"seven";
        break;
        case 8:
        std::cout<<"eight";
        break;
        case 9:
        std::cout<<"nine";
        break;
        }
        switch(g)
{
```

```
        case 0:
        std::cout<<"zero";
        break;
        case 1:
        std::cout<<"one";
        break;
        case 2:
        std::cout<<"two";
        break;
        case 3:
        std::cout<<"three";
        break;
        case 4:
        std::cout<<"four";
        break;
        case 5:
        std::cout<<"five";
        break;
        case 6:
        std::cout<<"six";
        break;
        case 7:
        std::cout<<"seven";
        break;
        case 8:
        std::cout<<"eight";
        break;
        case 9:
        std::cout<<"nine";
        break;
}
```

```
        switch(h)
{
        case 0:
        std::cout<<"zero";
        break;
        case 1:
        std::cout<<"one";
        break;
        case 2:
        std::cout<<"two";
        break;
        case 3:
        std::cout<<"three";
        break;
        case 4:
        std::cout<<"four";
        break;
        case 5:
        std::cout<<"five";
        break;
        case 6:
        std::cout<<"six";
        break;
        case 7:
        std::cout<<"seven";
        break;
        case 8:
        std::cout<<"eight";
        break;
        case 9:
        std::cout<<"nine";
```

```
        break;
}
switch(i)
{
        case 0:
        std::cout<<"zero";
        break;
        case 1:
        std::cout<<"one";
        break;
        case 2:
        std::cout<<"two";
        break;
        case 3:
        std::cout<<"three";
        break;
        case 4:
        std::cout<<"four";
        break;
        case 5:
        std::cout<<"five";
        break;
        case 6:
        std::cout<<"six";
        break;
        case 7:
        std::cout<<"seven";
        break;
        case 8:
        std::cout<<"eight";
        break;
```

```
                case 9:
                std::cout<<"nine";
                break;
        }
}
        else if(num>=1000000000 && num<=9999999999)
{
   b=num%1000000000;
        a=num/1000000000;
        c=b%100000000;
        b=b/100000000;
        d=c%10000000;
        c=c/10000000;
        e=d%1000000;
        d=d/1000000;
        f=e%100000;
        e=e/100000;
        g=f%10000;
        f=f/10000;
        h=g%1000;
        g=g/1000;
        i=h%100;
        h=h/100;
        j=i%10;
        i=i/10;
switch(a)
        {
                case 0:
                std::cout<<"zero";
                break;
                case 1:
```

```
        std::cout<<"one";
        break;
        case 2:
        std::cout<<"two";
        break;
        case 3:
        std::cout<<"three";
        break;
        case 4:
        std::cout<<"four";
        break;
        case 5:
        std::cout<<"five";
        break;
        case 6:
        std::cout<<"six";
        break;
        case 7:
        std::cout<<"seven";
        break;
        case 8:
        std::cout<<"eight";
        break;
        case 9:
        std::cout<<"nine";
        break;
}
switch(b)
{
        case 0:
        std::cout<<"zero";
```

```
            break;
            case 1:
            std::cout<<"one";
            break;
            case 2:
            std::cout<<"two";
            break;
            case 3:
            std::cout<<"three";
            break;
            case 4:
            std::cout<<"four";
            break;
            case 5:
            std::cout<<"five";
            break;
            case 6:
            std::cout<<"six";
            break;
            case 7:
            std::cout<<"seven";
            break;
            case 8:
            std::cout<<"eight";
            break;
            case 9:
            std::cout<<"nine";
            break;
            }
switch(c)
{
```

```
case 0:
std::cout<<"zero";
break;
case 1:
std::cout<<"one";
break;
case 2:
std::cout<<"two";
break;
case 3:
std::cout<<"three";
break;
case 4:
std::cout<<"four";
break;
case 5:
std::cout<<"five";
break;
case 6:
std::cout<<"six";
break;
case 7:
std::cout<<"seven";
break;
case 8:
std::cout<<"eight";
break;
case 9:
std::cout<<"nine";
break;
}
```

```
switch(d)
        {
                case 0:
                std::cout<<"zero";
                break;
                case 1:
                std::cout<<"one";
                break;
                case 2:
                std::cout<<"two";
                break;
                case 3:
                std::cout<<"three";
                break;
                case 4:
                std::cout<<"four";
                break;
                case 5:
                std::cout<<"five";
                break;
                case 6:
                std::cout<<"six";
                break;
                case 7:
                std::cout<<"seven";
                break;
                case 8:
                std::cout<<"eight";
                break;
                case 9:
                std::cout<<"nine";
```

```
        break;
        }
switch(e)
{
        case 0:
        std::cout<<"zero";
        break;
        case 1:
        std::cout<<"one";
        break;
        case 2:
        std::cout<<"two";
        break;
        case 3:
        std::cout<<"three";
        break;
        case 4:
        std::cout<<"four";
        break;
        case 5:
        std::cout<<"five";
        break;
        case 6:
        std::cout<<"six";
        break;
        case 7:
        std::cout<<"seven";
        break;
        case 8:
        std::cout<<"eight";
        break;
```

```
            case 9:
            std::cout<<"nine";
            break;
}
switch(f)
{
            case 0:
            std::cout<<"zero";
            break;
            case 1:
            std::cout<<"one";
            break;
            case 2:
            std::cout<<"two";
            break;
            case 3:
            std::cout<<"three";
            break;
            case 4:
            std::cout<<"four";
            break;
            case 5:
            std::cout<<"five";
            break;
            case 6:
            std::cout<<"six";
            break;
            case 7:
            std::cout<<"seven";
            break;
            case 8:
```

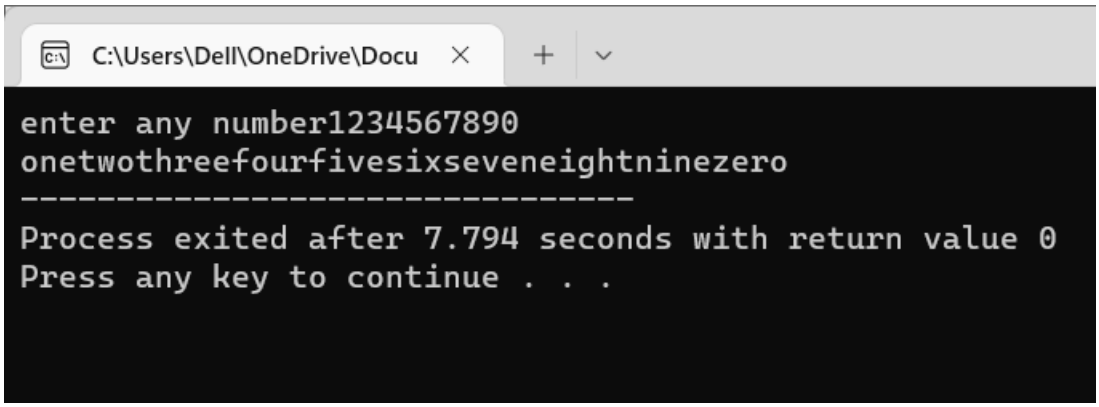
```
            std::cout<<"eight";
            break;
            case 9:
            std::cout<<"nine";
            break;
            }
            switch(g)
{
            case 0:
            std::cout<<"zero";
            break;
            case 1:
            std::cout<<"one";
            break;
            case 2:
            std::cout<<"two";
            break;
            case 3:
            std::cout<<"three";
            break;
            case 4:
            std::cout<<"four";
            break;
            case 5:
            std::cout<<"five";
            break;
            case 6:
            std::cout<<"six";
            break;
            case 7:
            std::cout<<"seven";
```

```
        break;
        case 8:
        std::cout<<"eight";
        break;
        case 9:
        std::cout<<"nine";
        break;
}
        switch(h)
{
        case 0:
        std::cout<<"zero";
        break;
        case 1:
        std::cout<<"one";
        break;
        case 2:
        std::cout<<"two";
        break;
        case 3:
        std::cout<<"three";
        break;
        case 4:
        std::cout<<"four";
        break;
        case 5:
        std::cout<<"five";
        break;
        case 6:
        std::cout<<"six";
        break;
```

```
        case 7:
        std::cout<<"seven";
        break;
        case 8:
        std::cout<<"eight";
        break;
        case 9:
        std::cout<<"nine";
        break;
}
switch(i)
{
        case 0:
        std::cout<<"zero";
        break;
        case 1:
        std::cout<<"one";
        break;
        case 2:
        std::cout<<"two";
        break;
        case 3:
        std::cout<<"three";
        break;
        case 4:
        std::cout<<"four";
        break;
        case 5:
        std::cout<<"five";
        break;
        case 6:
```

```
        std::cout<<"six";
        break;
        case 7:
        std::cout<<"seven";
        break;
        case 8:
        std::cout<<"eight";
        break;
        case 9:
        std::cout<<"nine";
        break;
}
switch(j)
{
        case 0:
        std::cout<<"zero";
        break;
        case 1:
        std::cout<<"one";
        break;
        case 2:
        std::cout<<"two";
        break;
        case 3:
        std::cout<<"three";
        break;
        case 4:
        std::cout<<"four";
        break;
        case 5:
        std::cout<<"five";
```

```
                        break;
                        case 6:
                        std::cout<<"six";
                        break;
                        case 7:
                        std::cout<<"seven";
                        break;
                        case 8:
                        std::cout<<"eight";
                        break;
                        case 9:
                        std::cout<<"nine";
                        break;
                }
        }
}
        }
```

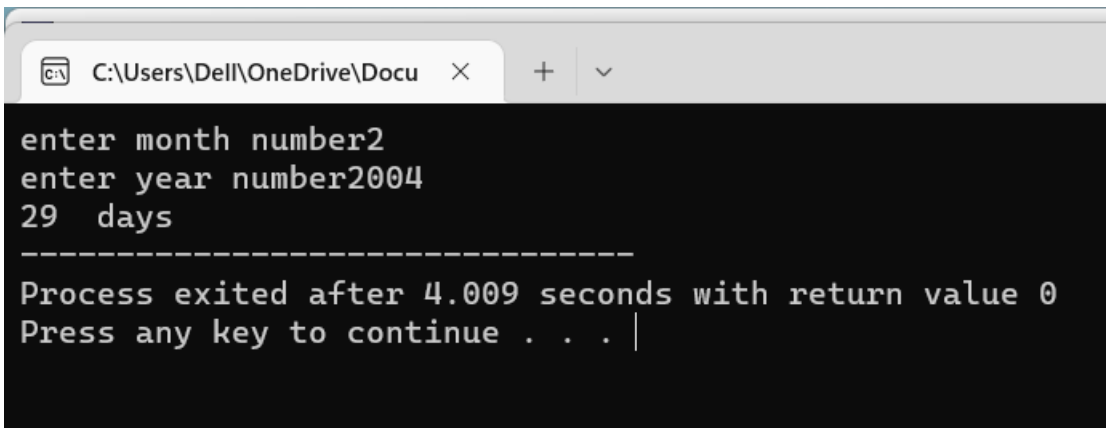


Task 4:

```
#include<iostream>

int main()
{
```

```
int m,y,f;
std::cout<<"enter month number";
std::cin>>m;
std::cout<<"enter year number";
std::cin>>y;
if(y%4==0)
{
        f=29;
}
else
{
        f=28;
}
switch(m)
{
case 1:
        std::cout<<31<<"  days";
        break;
case 2:
        std::cout<<f<<"  days";
        break;
case 3:
        std::cout<<31<<"  days";
        break;
case 4:
        std::cout<<30<<"  days";
        break;
case 5:
        std::cout<<31<<"  days";
        break;
case 6:
```

```
            std::cout<<30<<"  days";
            break;
    case 7:
            std::cout<<31<<"  days";
            break;
    case 8:
            std::cout<<31<<"  days";
            break;
    case 9:
            std::cout<<30<<"  days";
            break;
    case 10:
            std::cout<<31<<"  days";
            break;
    case 11:
            std::cout<<30<<"  days";
            break;
    case 12:
            std::cout<<31<<"  days";
            break;
    default:
            std::cout<<"enter correct number";
            break;
    }
```



Task 5:

```
#include<iostream>
int main()
{
	int num, v1 = 0, n, v2 = 0, count = 0;
	std :: cout << "Enter Binary Number greator than 6 and smaller than 10 : ";
	std :: cin >> num;
	do
	{
		n = num % 10;
		if(n > 1)
		{
			v2 = 1;
		}
		if(n == 1)
		{
			count++;
		}
		num=num/ 10;
		v1++;
	}while(num > 0);

	if(v2 == 1)
	{
		std :: cout << "Incorrect Input! this is not a Binary Number!";
	}
	else if(v1 < 6)
	{
		std :: cout << "Digits are less than six."<<std::endl;
	}
	else if(v1 > 10)
```

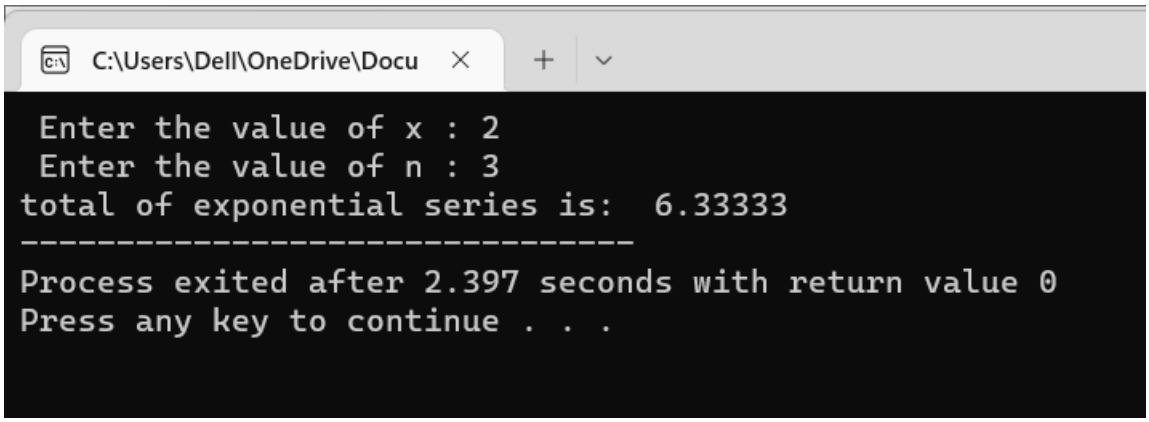
```
        {
                std :: cout << "Digits are greater than 10."<<std::endl;
        }
        else
        {
                std :: cout << "Digits are greater than six and less than 10!"<<std::endl<<"
        Total no. of 1's are : " << count;
        }
        return 0;
}
```

```
Enter Binary Number greator than 6 and smaller than 10 : 10101010
Digits are greater than six and less than 10!
        Total no. of 1's areá:á4
G:\c++\Project3\x64\Debug\Project3.exe (process 17564) exited with c
To automatically close the console when debugging stops, enable Tool
le when debugging stops.
Press any key to close this window . . .
```

Task 6:

```
#include <iostream>
using namespace std;
int main()
{
        int i, n;
   float x, total=1, power=1;


   cout<<" Enter the value of x : ";
   cin>>x;

   cout<<" Enter the value of n : ";
   cin>>n;
```

```
  for(i=1;i<=n;i++)
  {
     power=power*x/i;
     total=total+power;
  }
                    cout<<"total of exponential series is:  "<<total;
          }
```



Task 6 another:

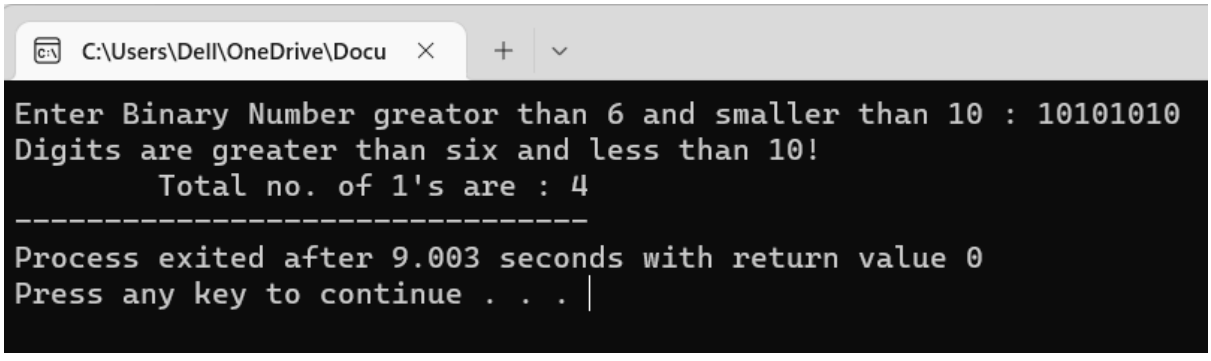
```
#include<iostream>
using namespace std;
int main()
{
          float n, x, count = 1 ,p,temp = 1, fac = 2;
          float sum = 1, d;
          cout << "Enter N and X : ";
          cin >> n >> x;
```

```
        p = x;
        sum = sum + x;

        while(count < n)
        {
                x = x * p;
                temp = temp * fac;
                fac++;
                d = x / temp;
                sum = sum + d;
                count++;
        }
        cout<< sum;
}
```

Task 7:

```
#include<iostream>
int main()
{
        int num, num1 = 0, i, num2 = 0, c = 0;
        std :: cout << "Enter Binary Number greator than 6 and smaller than 10 : ";
        std :: cin >> num;
        do
        {
                i = num % 10;
                if(i > 1)
                {
                        num2 = 1;
                }
                if(i == 1)
                {
```

```
                c++;
            }
            num=num/ 10;
            num1++;
        }while(num > 0);

        if(num2 == 1)
        {
            std :: cout << "Incorrect Input! this is not a Binary Number!";
        }
        else if(num1 < 6)
        {
            std :: cout << "Digits are less than six."<<std::endl;
        }
        else if(num1 > 10)
        {
            std :: cout << "Digits are greater than 10."<<std::endl;
        }
        else
        {
            std :: cout << "Digits are greater than six and less than 10!"<<std::endl<<"
        Total no. of 1's are : " << c;
        }

}
```

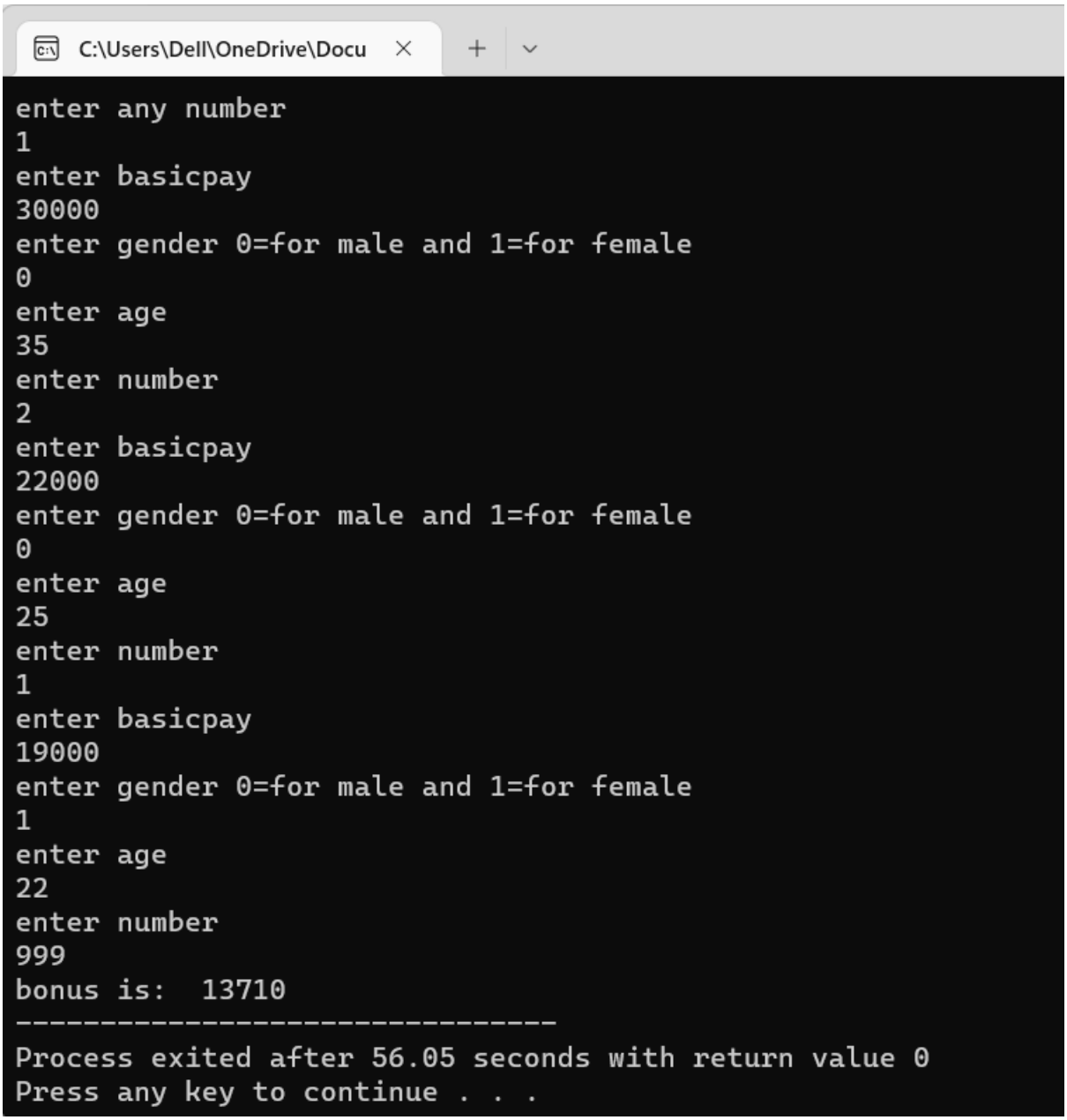


Task 8:

```
#include<iostream>

int main()
{
	int basicpay,gender,age,number,bonus,b1=0,b2=0,b3=0;
	std::cout<<"enter any number"<<std::endl;
	std::cin>>number;
	while(number!=999)
	{
	std::cout<<"enter basicpay\n";
	std::cin>>basicpay;
	std::cout<<"enter gender 0=for male and 1=for female\n";
	std::cin>>gender;
	std::cout<<"enter age\n";
	std::cin>>age;
		if(gender==0||gender==1)

		{
			if(age>30&&basicpay>25000)
			{
			bonus=basicpay*.25;
			b1=b1+bonus;

			}
		else if(gender==0&&age<30&&basicpay>21000)
		{
			bonus=basicpay*.17;
```

```
                b2=b2+bonus;


        }
        else if(gender==1&&age<25&&basicpay>18000)
        {
                bonus=basicpay*.13;
                b3=b3+bonus;


        }


        else
{
        b1=0;
        b2=0;
        b3=0;


}
        }



        std::cout<<"enter number"<<std::endl;
        std::cin>>number;
}


std::cout<<"bonus is:  "<<b1+b2+b3;
```

}



Task 10:

#include <iostream>

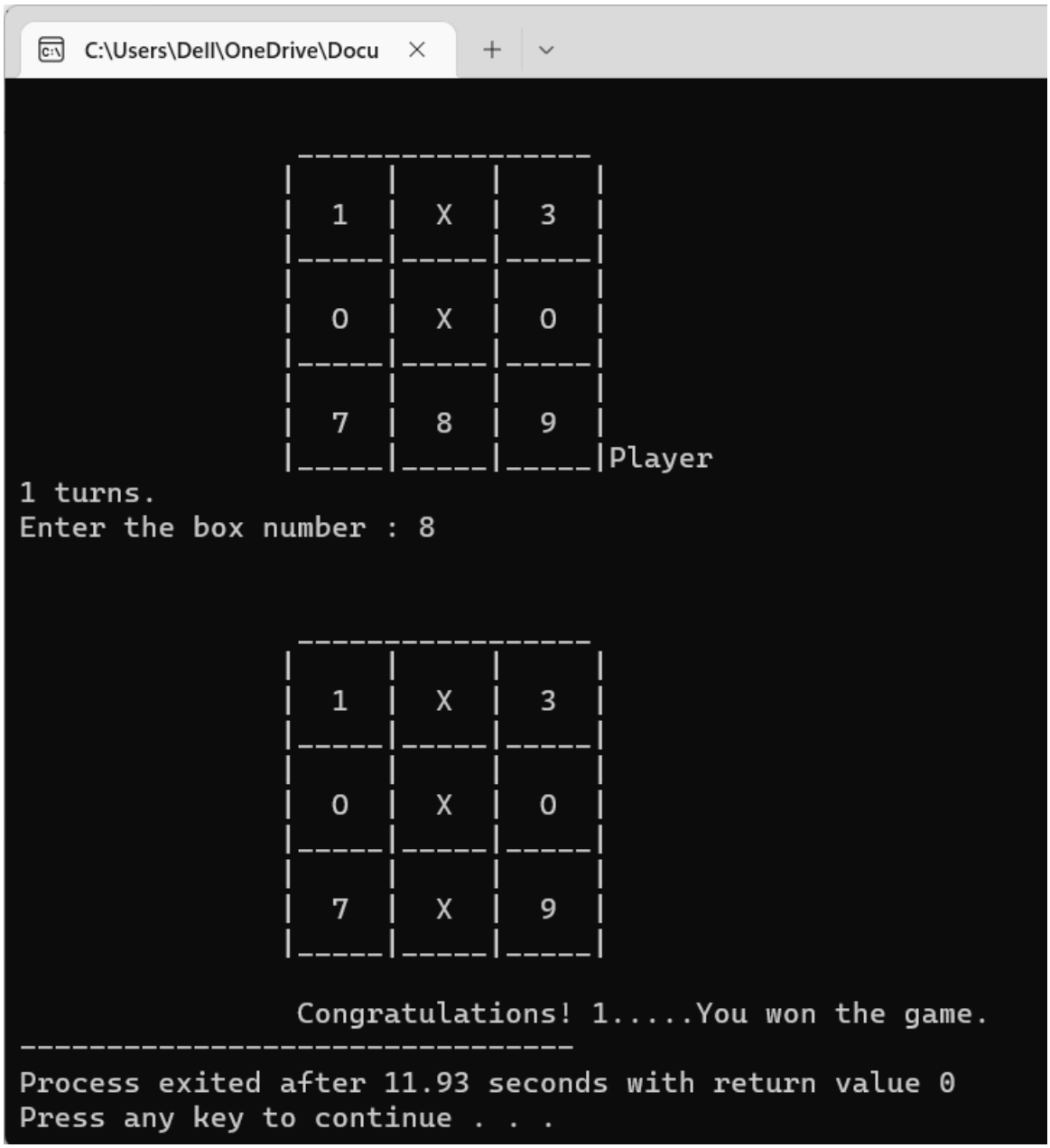
```
#include <cstdlib>
#include <ctime>



int main()
{

	int X,player,O,num;
	char box1='1',box2='2',box3='3',box4='4',box5='5',box6='6',box7='7',box8='8',box9='9';
	bool toss;


	std::cout<<"GAME RULES:"<<std::endl<<" You have to Enter the number of box in which you want to display X/O"<<std::endl;
	std::cout<<" If a player is able to draw three Xs or three Os in a row ( horizontally, vertically, or diagonally )"<<std::endl<<"  then that player wins"<<std::endl;
	std::cout<<" If all squares are filled and neither player has made a complete row of Xs or Os, then the game is a draw"<<std::endl;
	std::cout<<" No player can draw in box that is already filled.";


	do
	{
		std::cout<<"Enter the player number (1/2) that want to choose 'X' symbol : "<<std::endl;
		std::cin>>X;
		if(X!=1 && X!=2)
		{
			std::cout<<"Wrong choice!"<<std::endl;
		}
	}while(X!=1 && X!=2);


	O=3-X;
	std::cout<<"Symbol 'X' has been assigned to player "<<X<<std::endl;
```

```
std::cout<<"Symbol 'O' has been assigned to player "<<O<<std::endl;
srand(time(0));
toss = rand()%2;
if(toss)
{
	std::cout<<"Player "<<std::endl<<O<<" won the toss he will start first";
	player=O;
}
else
{
	std::cout<<"Player "<<std::endl<<X<<" won the toss he will start first";
	player=X;
}

std::cout<<"\n\t\t_____"
	<<"\n\t     |    |    |    |"
	<<"\n\t     |  "<<box1<<"  |  "<<box2<<"  |  "<<box3<<"  |"
	<<"\n\t     |_____|_____|_____|"
	<<"\n\t     |    |    |    |"
	<<"\n\t     |  "<<box4<<"  |  "<<box5<<"  |  "<<box6<<"  |"
	<<"\n\t     |_____|_____|_____|"
	<<"\n\t     |    |    |    |"
	<<"\n\t     |  "<<box7<<"  |  "<<box8<<"  |  "<<box9<<"  |"
	<<"\n\t     |_____|_____|_____|";


do
{

	std::cout<<"Player "<<std::endl<<player<<" turns."<<std::endl;
	std::cout<<"Enter the box number : ";
```

```
std::cin>>num;


if(num==1 && box1=='1')
{
	box1=(player==X)?'X':'O';
}
else if(num==2 && box2=='2')
{
	box2=(player==X)?'X':'O';
}
else if(num==3 && box3=='3')
{
	box3=(player==X)?'X':'O';
}
else if(num==4 && box4=='4')
{
	box4=(player==X)?'X':'O';
}
else if(num==5 && box5=='5')
{
	box5=(player==X)?'X':'O';
}
else if(num==6 && box6=='6')
{
	box6=(player==X)?'X':'O';
}
else if(num==7 && box7=='7')
{
	box7=(player==X)?'X':'O';
}
else if(num==8 && box8=='8')
```

```
{
        box8=(player==X)?'X':'O';
}
else if(num==9 && box9=='9')
{
        box9=(player==X)?'X':'O';
}
else
{
        std::cout<<"Wrong Choice!"<<std::endl;
        player = 3-player;
}

std::cout<<"\n\n\t\t_____________________"
        <<"\n\t     |    |    |    |"
        <<"\n\t     | "<<box1<<" | "<<box2<<" | "<<box3<<" |"
        <<"\n\t     |_____|_____|_____|"
        <<"\n\t     |    |    |    |"
        <<"\n\t     | "<<box4<<" | "<<box5<<" | "<<box6<<" |"
        <<"\n\t     |_____|_____|_____|"
        <<"\n\t     |    |    |    |"
        <<"\n\t     | "<<box7<<" | "<<box8<<" | "<<box9<<" |"
        <<"\n\t     |_____|_____|_____|";

        if( (box1==box2 && box1==box3) || (box4==box5 && box4==box6) || (box7==box8
&& box7==box9) || (box1==box4 && box1==box7) || (box2==box5 && box5==box8) ||
(box3==box6 && box6==box9) || (box3==box5 && box5==box7) || (box1==box5 && box5==box9))
        {
```

```
                std::cout<<"\n\n\t\tCongratulations! "<<player<<".....You won the game.";
                break;
            }
            else if (box1!='1' && box2!='2' && box3!='3' && box4!='4' && box5!='5' &&
box6!='6' && box7!='7' && box8!='8' && box9!='9')
            {
                std::cout<<"\n\n\t\tthe game is tie.";
                break;
            }

            player = 3-player;

        }while(true);

        return 0;
}
```


C:\Users\Dell\OneDrive\Docu
_____
1	X	3
_____	_____	_____
O	X	O
_____	_____	_____
7	8	9
_____	_____	_____	Player
1 turns.
Enter the box number : 8
_____
1	X	3
_____	_____	_____
O	X	O
_____	_____	_____
7	X	9
_____	_____	_____
Congratulations! 1.....You won the game.
Process exited after 11.93 seconds with return value 0
Press any key to continue . . .