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In [ ]:  ##Assignment 1
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In [ ]:  #Question1
         #1. Write a program that asks the user to enter a letter. Then it generates a random number between 1 and 10 and prints out the letter that many times.
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In [34]: import random
         letter=input("Enter a letter :")
         rand_number = random.randint(1,10)
         #print("A random Number is generated and the value is ", rand_number)
         #print("Printing the letter entered ",letter," for ",rand_number ,"times")
         for _ in range(rand_number):
             print(letter)
```

```
Enter a letter :B
B
B
B
B
B
B
```

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In [19]: #Question 2
         #2. In the game Yahtzee, players roll five dice. A Yahtzee is when all five dice are the same. Write a program that simulates rolling five 10,000 times and counts how many Yahtzees
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In [31]: import random
         Yahtzee=0
         for i in range(10000):
             dice1=random.randint(1,6)
             dice2=random.randint(1,6)
             dice3=random.randint(1,6)
             dice4=random.randint(1,6)
             dice5=random.randint(1,6)

             if dice1==dice2==dice3==dice4==dice5:
                 Yahtzee=Yahtzee+1
         #print("Number of times we got Yahtzees is/are ", Yahtzee)
         print("Percentage of rolls come out to be Yahtzees is ",(Yahtzee/10000)*100,"%" )
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Percentage of rolls come out to be Yahtzees is  0.05 %
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In [ ]:  #Question3
         #3. Write a program that asks the user to enter a sentence, removes all the spaces from the sentence, converts the remainder to uppercase, and prints out the result.
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In [33]: sentence=input("Enter a sentence : ")
         #print("The Sentence Entered is ", sentence)
         sentence1=sentence.replace(" ","")
         #print("The Sentence after removing spaces is ",sentence1)
         sentence2=sentence1.upper()
         print("Sentence after removing spaces and converting to uppercase is ",sentence2)
```

```
Enter a sentence : Hi Yogesh this is Assignment 1 Question 3
Sentence after removing spaces and converting to uppercase is  HIYOGESHTHISISASSIGNMENT1QUESTION3
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In [ ]:  #Question 4
         #4. Write a program that asks the user to enter a string. If the string is at least five characters long, then create a new string that consists of the first five characters of the
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In [11]: string=input("Please Enter a String :")
         if len(string)>=5:
             string1=string[:5]+'*' * 3
             print(string1)
         else:
             string2=string+'!' * (5-len(string))
             print(string2)
```

```
Please Enter a String :Yogesh
Yoges***
```

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In [12]: string=input("Please Enter a String :")
         if len(string)>=5:
             string1=string[:5]+'*' * 3
             print(string1)
         else:
             string2=string+'!' * (5-len(string))
             print(string2)
```

```
Please Enter a String :Yo
Yo!!!
```

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In [ ]:  #Question 5
         #5. Write a program that ask the user to enter a string that consists of multiple words. Then print out the first letter of each word, all on the same line.
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```
In [15]: string=input("Please enter a string :")
         string1=string.split()
         for i in string1:
             print(i[0],end = " ")
```

```
Please enter a string :Hi Yogesh this is Assignment 1
H Y t i A 1
```

```
In [14]: string=input("Please enter a string :")
         string1=string.split()
         for i in string1:
             print(i[0],end = " ")
```

```
Please enter a string :Hi
H
```