

In [1]:	<pre>print("Hello") Hello</pre>	
In [2]:	<pre>#Area Of Circle r=3.4 area=3.142*r*r*4 print("Area of Circle:",area)</pre>	Area of Circle: 42.731199999999994
In [3]:	<pre>#Swap a,b=20,10 print("a=",a,"b=",b) a,b=b,a print("a=",a,"b=",b)</pre>	a= 20 b= 10 a= 10 b= 20
In [6]:	<pre>s="Hello" type(s)</pre>	str
In [8]:	<pre>x=int(input("Enter no 1 : ")) y=int(input("Enter no 2 : ")) if x>y: print(x,"is greater than",y) elif y>x: print(y,"is greater than",x) else: print("Both",x,"and",y,"are equal")</pre>	Enter no 1 : 3 Enter no 2 : 3 Both 3 and 3 are equal
In [9]:	<pre>sub1=int(input("Enter subject 1 marks: ")) sub2=int(input("Enter subject 2 marks: ")) sub3=int(input("Enter subject 3 marks: ")) pers=((sub1+sub2+sub3)/300)*100 if pers>80: print("A+") elif pers>60: print("A") elif pers>50: print("B") elif pers>40: print("C") else: print("Fail")</pre>	Enter subject 1 marks: 34 Enter subject 2 marks: 34 Enter subject 3 marks: 54 C
In [10]:	<pre>i=1 while (i<=10): print(i) i+=1 else: print("i=",i) i=i print("i has became 1 again")</pre>	1 2 3 4 5 6 7 8 9 10 i= 11 i has became 1 again
In [11]:	<pre># in single line i=1 while(i<=10): i+=1; print(i)</pre>	2 3 4 5 6 7 8 9 10 11
In [12]:	<pre>i=1 while(i<=10): print(i) ; i+=1</pre>	1 2 3 4 5 6 7 8 9 10
In [13]:	<pre># pass in while loop i=1 while(i<=10): i+=1 pass print("i=",i)</pre>	i= 11
In [18]:	<pre># range r= range(1, 11) print(r)</pre>	range(1, 11)
In [19]:	<pre>r=range(1,11) print(r) print(type(r)) for i in r: print(i)</pre>	range(1, 11) <class 'range'> 1 2 3 4 5 6 7 8 9 10
In [20]:	<pre>r=range(1,6,2) print(r) print(type(r)) for i in r: print(i)</pre>	range(1, 6, 2) <class 'range'> 1 3 5
In [21]:	<pre>r=range(0,0,-2) print(r) print(type(r)) for i in r: print(i)</pre>	range(0, 0, -2) <class 'range'> 0 6 4 2
In [22]:	<pre>for i in range(20,220,20): print(i)</pre>	20 40 60 80 100 120 140 160 180 200
In [7]:	<pre>for i in range(10,110,10): print("i=",i) for j in range(1,3): print("j=",j) else: print("i has crossed 2") else: print("i has crossed 100")</pre>	i= 10 j= 1 j= 2 j has crossed 2 i= 20 j= 1 j= 2 j has crossed 2 i= 30 j= 1 j= 2 j has crossed 2 i= 40 j= 1 j= 2 j has crossed 2 i= 50 j= 1 j= 2 j has crossed 2 i= 60 j= 1 j= 2 j has crossed 2 i= 70 j= 1 j= 2 j has crossed 2 i= 80 j= 1 j= 2 j has crossed 2 i= 90 j= 1 j= 2 j has crossed 2 i= 100 j= 1 j= 2 j has crossed 2 i has crossed 100
In [5]:	<pre># 1 Display numbers from 1 to 100 # for print("Number from 1 to 100") for i in range(1,101): print(i, end=" ")</pre>	Number from 1 to 100 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100
In [6]:	<pre># 1 Display numbers from 1 to 100 # while print("Number from 1 to 100") i=1 while i<=100: print(i, end=" ") i+=1</pre>	Number from 1 to 100 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100
In [1]:	<pre># 2 Display all even numbers from 1 to 100 # for n1=1 n2=100 for n in range(n1,n2+1): if n%2==0: print(n,end=" ")</pre>	2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 34 36 38 40 42 44 46 48 50 52 54 56 58 60 62 64 66 68 70 72 74 76 78 80 82 84 86 88 90 92 94 96 98 100
In [2]:	<pre># 2 Display all odd numbers from 1 to 100 # for n1=1 n2=100 for n in range(n1,n2+1): if n%2!=0: print(n,end=" ")</pre>	1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31 33 35 37 39 41 43 45 47 49 51 53 55 57 59 61 63 65 67 69 71 73 75 77 79 81 83 85 87 89 91 93 95 97 99
In [40]:	<pre># 2 Display all even numbers from 200 to 300 # while print("Number from 200 to 300") max=300 min=200 while min<=max: if(min%2==0): print("{} ".format(min),end=" ") min=min+1</pre>	Number from 200 to 300 200 202 204 206 208 210 212 214 216 218 220 222 224 226 228 230 232 234 236 238 240 242 244 246 248 250 252 254 256 258 260 262 264 266 268 270 272 274 276 278 280 282 284 286 288 290 292 294 296 298 300
In [39]:	<pre># 3 Display all odd numbers from 200 to 300 # while print("Number from 200 to 300") max=300 min=200 while min<=max: if(min%2!=0): print("{} ".format(min),end=" ") min=min+1</pre>	Number from 200 to 300 201 203 205 207 209 211 213 215 217 219 221 223 225 227 229 231 233 235 237 239 241 243 245 247 249 251 253 255 257 259 261 263 265 267 269 271 273 275 277 279 281 283 285 287 289 291 293 295 297 299
In [4]:	<pre># 4 Display the seventh element between 400 to 500 #for i=400 for i in range(400,500,7): print(i,end=" ")</pre>	400 407 414 421 428 435 442 449 456 463 470 477 484 491 498
In [9]:	<pre># 4 Display the seventh element between 400 to 500 # while i=400 while i<=495: i+=7 print(i,end=" ")</pre>	407 414 421 428 435 442 449 456 463 470 477 484 491 498
In [41]:	<pre># 5 Find First 10 even numbers # for n=10 for n in range(1,n+1): if n%2==0: print(n)</pre>	2 4 6 8 10
In [49]:	<pre># 5 Find First 10 even numbers # while num=10 n=1 while n<=num: if n%2==0: print(n) n=n+1</pre>	2 4 6 8 10
In [52]:	<pre># 6 Find all prime numbers<100 # for n1=1 n2=100 for n in range(n1,n2+1): if n>1: for i in range(2,n): if(n%i)==0: break else: print(n,end=" ")</pre>	2 3 5 7 11 13 17 19 23 29 31 37 41 43 47 53 59 61 67 71 73 79 83 89 97
In [2]:	<pre># 7 Find all prime numbers from 400 till 300 print("Enter the number from 400 till 300 : ") for n in range(400,300,-1): count=0 for i in range(2,(n//2+1)): if(n%i==0): count=count+1 if count==0: print(n,end=" ")</pre>	Enter the number from 400 till 300 : 307 309 303 379 373 367 359 353 349 347 337 331 317 313 311 307
In [34]:	<pre># 8 Calculate factorial of a number # for n=int(input("Enter the element : ")) fact=1 for i in range(1,n+1): fact=fact*i print(fact)</pre>	Enter the element : 7 5040
In [35]:	<pre># 9 Count number of digits in any number # while n=int(input("Enter the number : ")) count=0 while(n>0): count=count+1 n=n//10 print(count)</pre>	Enter the number : 654 3
In [36]:	<pre># 10 Generate Fibonacci series. 0,1,1,2,3,5,8..k.where k<n. n is entered by user # while n=int(input("Enter the value : ")) a=0 b=1 sum=0 count=1 print("Fibonacci series : ",end=" ") while(count<=n): print(sum,end=" ") count+=1 a=b b=sum sum=a+b print("\nend of logic")</pre>	Enter the value : 6 Fibonacci series : 0 1 1 2 3 5 end of logic
In [42]:	<pre># 11 Generate Fibonacci series for first n terms a=int(input("Enter the terms : ")) f=0 s=1 if a<=0: print("The requested series is : ",f) else: print(f,s,end=" ") for x in range(2,a): next=f+s print(next,end=" ") f=s s=next</pre>	Enter the terms : 20 0 1 1 2 3 5 8 13 21 34 55 89 144 233 377 610 987 1597 2584 4181
In [37]:	<pre># 12 Find sum of all digits of a number # while n=int(input("Enter a number : ")) sum=0 while(n>0): digit=n%10 sum=sum+digit n=n//10 print("The total sum of digit is : ",sum)</pre>	Enter a number : 50 The total sum of digit is : 11
In [39]:	<pre># 13 Find out if given number is palindrome or not # while n=int(input("Enter a number : ")) temp=n rev=0 while(n>0): digit=n%10 rev=rev*10+digit n=n//10 if(temp==rev): print("The number is palindrome") else: print("The number is not palindrome")</pre>	Enter a number : 45 The number is not palindrome
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In []:		